BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

Colorado National Monument



WATER RESOURCES DIVISION AND SERVICEWIDE INVENTORY AND MONITORING PROGRAM



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BASELINE WATER QUALITY DATA INVENTORY AND ANALYSIS

COLORADO NATIONAL MONUMENT

National Park Service Water Resources Division Fort Collins, CO 80525

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EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Colorado National Monument (COLM) from six of the United States Environmental Protection Agency's (EPA) national databases: (1) Storage and Retrieval (STORET) water quality database management system; (2) River Reach File (RF3); (3) Industrial Facilities Discharge (IFD); (4) Drinking Water Supplies (DRINKS); (5) Water Gages (GAGES); and (6) Water Impoundments (DAMS). This document is one product resulting from a cooperative contractual endeavor between the National Park Service's (NPS) Servicewide Inventory and Monitoring Program, the National Park Service's Water Resources Division (WRD), and Horizon Systems Corporation to retrieve, format, and analyze surface water quality data for all units of the National Park System containing significant water resources. The primary goal of the project is to provide descriptive water quality information in a manner and format that is both consistent with the goals of the Servicewide Inventory and Monitoring Program and useable by park resource managers. The document provides: (1) a complete inventory of all retrieved water quality parameter data, water quality stations, and the entities responsible for the data collection; (2) descriptive statistics and appropriate graphical plots of water quality data characterizing period of record, annual, and seasonal central tendencies and trends; (3) a comparison of the park's water quality data to relevant EPA and WRD water quality screening criteria; and (4) an Inventory Data Evaluation and Analysis (IDEA) to determine what Servicewide Inventory and Monitoring Program "Level I" water quality parameters have been measured within the study area. Accompanying the report are disks containing digital copies of all data used in the report, as well as all components of the report (tables, figures, etc.).

The results of the retrievals for the study area from the IFD, DRINKS, GAGES, and DAMS databases located six industrial/municipal dischargers; no drinking water intakes; four active or inactive U. S. Geological Survey (USGS) and U. S. National Weather Service stream gages; and four water impoundments. The results of the STORET retrieval for the study area yielded 7,401 observations for 143 separate parameters collected by the NPS, USGS, U.S. Bureau of Reclamation (USBR), and Colorado Department of Health (CDH) at 46 monitoring stations from 1901 through 1997[†]. Approximately 73 percent of the 7,401 observations within the study area were collected by the USGS from 1970 through 1997. Only the USGS has collected and entered data from within the study area since 1978. No stations were located within the park boundary. Thirteen USBR stations were established but contained no data.

Many of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Five stations within the study area yielded longer-term records consisting of multiple observations for several important water quality parameters: (1) Colorado River near Fruita (COLM 0046); (2) Leach Creek at Durham (COLM 0013); (3) Adobe Creek near Fruita (COLM 0039); (4) Hunter Wash at River Road (COLM 0029); and (5) Persigo Wash at River Road (COLM 0025)^{††}.

Screening criteria consisting of published EPA water-quality criteria and instantaneous concentration values selected by the WRD were used to identify potential water quality problems within the study area. While the criteria represent important threshold concentrations of pollutants, it is important to remember that criteria may have been exceeded due to any number of natural or anthropogenic factors, including errors in field, laboratory, and/or recording procedures. The reader is advised to read the Introduction for additional caveats in interpreting the exceeded criteria in this report. The results of the COLM water quality criteria screen found 14 groups of parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, cadmium,

[†]Of the 7,401 observations reported in the study area, one elevation value, entered in STORET by the CDH, was dated 01/01/01. The second oldest observation in STORET for the COLM study area was collected in 1968. Consequently, a more representative period of record for observations in the study area would be from 1968 through 1997.

^{††}Water quality station location descriptions are verbatim from STORET. Any misspellings and abbreviations in STORET are replicated in this document.

copper, and zinc exceeded their respective EPA criteria for the protection of freshwater aquatic life. Chloride, sulfate, nitrite plus nitrate, lead, nickel, and uranium exceeded their respective EPA drinking water criteria. Fecal-indicator bacteria concentrations (total and fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

Dissolved oxygen concentrations were measured 189 times at 21 monitoring stations from 1973 through 1996. Three observations at two stations, the Colorado River at the West Filtration Plant (COLM 0007) and North Pond at Walker State Wildlife Area (WSWA) (COLM 0021), were less than or equal to the 4 milligrams per liter (mg/L) EPA criterion for the protection of freshwater aquatic life during November 1976 and August 1995, respectively.

The pH was measured 373 times at 33 monitoring stations from 1968 through 1997. Four concentrations at three monitoring stations, North Pond at WSWA (COLM 0021), Slasson Spring (COLM 0023), and Adobe Creek (COLM 0042), were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life) during 1977 and 1995. Three observations, 10.2 SU in Adobe Creek (COLM 0042) and 9.82 SU and 9.3 SU in North Pond at WSWA (COLM 0021), were greater than pH 9.0 in August 1977 and June 1995, respectively. One observation of 6.5 SU at Slasson Spring (COLM 0023) was equal to the lower limit of the pH range in August 1977.

Turbidity was measured 60 times in the Colorado River near Fruita (COLM 0046) from 1968 through 1978. Forty concentrations exceeded the WRD screening criterion of 50 Jackson Candle/Formazin/Nephelometric Turbidity Units (JTU/FTU/NTU) from 1968 through 1978, including the highest concentration of 1,250 FTU in June 1969.

Total coliform concentrations were measured 69 times in the Colorado River near Fruita (COLM 0046) from 1968 through 1978. Forty-nine concentrations exceeded the WRD bathing water screening criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml) from 1968 through 1978, including the highest concentration of 345,000 MPN/100 ml in August 1970. Fecal coliform concentrations were measured 68 times in the Colorado River near Fruita (COLM 0046) from 1968 through 1978. Fifty concentrations exceeded the WRD bathing water screening criterion of 200 CFU/MPN/100 ml from 1968 through 1978, including the highest concentration of 30,000 MPN/100 ml in October 1970.

Total chloride concentrations were measured 218 times at 20 monitoring stations from 1968 through 1997. Five concentrations at three monitoring stations, Adobe Creek near Fruita (COLM 0039), North Pond at WSWA (COLM 0021), and Persigo Wash at River Road (COLM 0025), equaled or exceeded the drinking water criterion of 250 mg/L from 1978 through 1995. The highest concentration of 710 mg/L was reported in North Pond at WSWA (COLM 0021) in June 1995.

Total sulfate concentrations were measured 210 times at 20 monitoring stations from 1968 through 1997. One-hundred-eighty-one concentrations at 17 monitoring stations equaled or exceeded the drinking water criterion of 250 mg/L from 1968 through 1997. Approximately 52 percent of these 181 concentrations were reported from five stations near Fruita (COLM 0037, COLM 0039, COLM 0041, COLM 0044, COLM 0046) from 1968 through 1995. The highest concentration of 3,500 mg/L was reported in North Pond at WSWA (COLM 0021) in June 1995.

Nitrite plus nitrate concentrations (including dissolved and total) were measured 168 times at 22 monitoring stations from 1973 through 1995. Seven dissolved concentrations in Adobe Creek near Fruita (COLM 0039) equaled or exceeded the drinking water criterion of 10 mg/L from 1976 through 1992, including the highest concentration of 11 mg/L in November 1979.

Cadmium concentrations (including dissolved and total recoverable) were measured 58 times at nine monitoring stations from 1968 through 1991. One total recoverable concentration of 4 micrograms per liter (μ g/L) in the Colorado River near Fruita (COLM 0046) exceeded the acute freshwater criterion of 3.9 μ g/L in October 1978.

Copper concentrations (including dissolved and total recoverable) were measured 59 times at eight monitoring stations from 1968 through 1991. Three total recoverable observations, ranging from 24 μ g/L to 100 μ g/L in the

Colorado River near Fruita (COLM 0046), exceeded the acute freshwater criterion of 18 μ g/L from 1975 through 1978. The highest concentration of 100 μ g/L was reported in July 1975.

Lead concentrations (including dissolved and total recoverable) were measured 58 times at nine monitoring stations from 1968 through 1991. Three total recoverable observations, ranging from 24 μ g/L to 30 μ g/L in the Colorado River near Fruita (COLM 0046), exceeded the drinking water criterion of 15 μ g/L from 1975 through 1977. The highest concentration of 30 μ g/L was reported in July 1975.

Total recoverable nickel was measured once in the Colorado River near Fruita (COLM 0046) in December 1978. The one concentration equaled the drinking water criterion of $100 \mu g/L$.

Uranium concentrations (including dissolved and total) were measured 17 times at ten monitoring stations from 1977 through 1991. Five total concentrations at five monitoring stations, at the mouth of Redlands Parkway Drain (COLM 0011), Leach Creek at Durham (COLM 0013), Appleton Drain at River Road (COLM 0020), Persigo Wash at River Road (COLM 0025), and Pritchard Wash at River Road (COLM 0027), equaled or exceeded the drinking water criterion of 20 μ g/L during March 1991. The highest concentration of 40 μ g/L was reported at the mouth of Redlands Parkway Drain (COLM 0011).

Zinc concentrations (including dissolved and total recoverable) were measured 70 times at nine monitoring stations from 1968 through 1991. Six total recoverable concentrations in the Colorado River near Fruita (COLM 0046) exceeded the acute freshwater criterion of 120 μ g/L from 1968 through 1970, including the highest concentration of 400 μ g/L in April 1970.

The IDEA conducted for COLM indicates that STORET data exist for 12 of the 13 Level I parameter groups in the study area. No STORET data exist for the parameter group Chlorophyll. No observations were recorded since 1978 for the groups Clarity/Turbidity and Bacteria, and since 1980 for the group Alkalinity. For three of the other parameter groups with data (Dissolved Oxygen, Nitrate/Nitrogen, and Phosphate/Phosphorus), less than 24 percent of the observations were recorded since 1985. Overall, approximately 23 percent of the observations for Level I parameter groups were recorded since 1985. Data for the groups Alkalinity, Flow, Clarity/Turbidity, Bacteria, and Toxic Elements were recorded at less than half of the 33 monitoring stations with data. Relative to other parameter groups, data were limited for the groups Clarity/Turbidity and Bacteria. Results for 10 of the 126 EPA priority toxic pollutants (consisting of inorganic parameters and metals) were retrieved from STORET.

Surface water resources in the COLM study area include the Colorado River; Adobe, Persigo, and many other creeks and washes; intermittent and perennial creeks draining Ute, No Thoroughfare, Red, Devils, and other canyons; many ditches, drains, and canals; Thompson, Gardner, and several smaller reservoirs; Connecticut and other lakes, ponds, and wetlands; and several intermittent springs and seeps. The data inventories and analyses contained in this report reveal that approximately 99 percent of the 7,401 total observations reported in the study area were collected from 31 stations in or near the Colorado River downstream of the park. No surface water quality data have been collected within or upstream of COLM. Additionally, there is a shortage of recent observations for many Level I parameter groups in the study area. Without adequate data it is difficult to make definitive statements regarding water quality throughout the study area; however, from the available data, surface water quality appears to have been impacted by human activities. Potential natural sources of contaminants include runoff from soils and deposits associated with the surficial geology of the area. Potential anthropogenic sources of contaminants include municipal and industrial discharges; urban and residential development; stormwater runoff; ranching and agricultural activities; quarrying and mining operations; recreational use; and atmospheric deposition.



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INTRODUCTION

The National Park Service's (NPS) Organic Act of 1916 states that the mission of the NPS is to promote and regulate the use of national parks, monuments, and other units "... to conserve the scenery and the natural and historic objects and wildlife therein and to provide for the enjoyment of the same in such a manner and by such means as will leave them unimpaired for the enjoyment of future generations." One task embodied by this mission is preserving and protecting water resources and water dependent environments in parks. Ensuring the integrity of park water quality, due to its importance in sustaining natural, aquatic park ecosystems and supporting human consumptive and recreational use, is fundamental to successfully addressing this task. The first step in ensuring the integrity of park water quality is defining historic and extant water quality.

This document represents one product of an ongoing effort by the NPS Water Resources Division (WRD) and the Servicewide Inventory and Monitoring Program to characterize baseline water quality using existing data at park units containing significant natural resources. This effort was initiated in 1993 by the award of a contract to Horizon Systems Corporation to retrieve, format, and analyze surface water quality data from the Environmental Protection Agency's (EPA) Storage and Retrieval (STORET) database system. The scope of work identified in the Request For Proposals outlined several sequential, interrelated project phases, including, but not limited to: (1) determining the water quality retrieval/query area around each park; (2) downloading and assessing the quality of the data from STORET; (3) generating basic water quality summary statistics and graphic plots; (4) reformatting water quality data for compatibility with the park-based Water Quality Data Management System presently underdevelopment; and (5) providing recommendations concerning possible hardware, software, and personnel options for storing combined park databases in a centralized NPS water quality database. This report documents the results of phases one through four of this effort for this park unit.

Goal

The goal of this document is to provide descriptive water quality information in a format usable for park planning purposes (eg. Water Resources Management Plans, Resource Management Plans, and General Management Plans). The report is designed to characterize baseline water quality rather than assess specific water quality problems at a park. This is consistent with the Servicewide Inventory and Monitoring Program's goal of obtaining basic, "Level I", water quality parameters for key waterbodies at each park (National Park Service 1993). Consequently, this report is best used as a reference document to help design new goal-driven water quality monitoring programs rather than as conclusive evidence of previous or existing water quality problems.

Purpose

The purpose of this report is to inventory existing park water quality data; establish baseline water quality at the park; identify potential water quality problems; and establish a park water quality database. This report is intended to enable park resource managers to compare and contrast water quality data collected as part of ongoing inventory and monitoring programs with historical water quality trends. Additionally, this report is intended to foster better designed park-based water quality inventory and monitoring programs in the future. The water quality databases which accompany this report will also lay the groundwork for establishing a NPS water quality database that will allow Regions and Washington Offices to generate regional and national assessments of park water quality.

Objectives

Specific objectives of the study documented in this report are to:

- 1. Retrieve water quality and related data from the EPA's STORET and other database systems;
- 2. Develop a complete inventory of all retrieved data;

- 3. Produce descriptive statistics and appropriate time series and box-and-whiskers plots of water quality data to characterize period of record, annual, and seasonal central tendencies and trends;
- 4. Compare water quality data with relevant national EPA water quality criteria on a station-by-station and study area basis;
- 5. Determine the presence and/or absence of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameters within the study area; and
- 6. Reformat water quality and other related data for use in the park-based Water Quality Data Management System, presently under-development, and other appropriate analytical tools.

Document Overview

This report is comprised of five chapters. The first chapter, this Introduction, provides a brief statement of the study's background; goal, purpose, and objectives; and the key personnel who helped produce the document. This chapter also contains this brief overview of the document's contents and important interpretive caveats to consider when referring to and using this document. The second chapter focuses on the methods, procedures, and databases that were employed to retrieve and analyze water quality data for the park. The third chapter is the user's interpretive guide to chapter four. Chapter three explains how to interpret all the tables and figures presented in chapter four. Chapter four, which likely comprises the majority of the document (unless there isn't much water quality data for the park), contains detailed inventories, descriptive statistics, graphics, and national EPA water quality criteria comparisons characterizing the park unit's water quality data on a station-by-station basis and over the entire study area. This chapter also contains a comparison of park water quality data with the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters and a listing of water quality observations that were outside the STORET edit criteria range. Chapter five, the Appendices, contains more specialized materials such as the file names and database structures included on floppy disk(s) with this report; STORET edit criteria; national EPA water quality criteria; Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters; selected water quality references; and other materials which provide background on the methods, procedures, and databases used or produced by this study.

The water quality and other related data referenced in this report accompany the document on floppy disk. The water quality parameter data file is in DBASE III+¹ format and will be useable in the park-based Water Quality Data Management System presently under-development. The water quality stations, industrial facilities discharges, drinking water intakes, water gages, water impoundments, and River Reach databases are also in DBASE III+ and/or ASCII format for ready-use in Geographic Information Systems (GIS), Computer-Aided Design Systems, or Desktop Mapping Systems.

Caveats

While intended primarily as a reference document, it is important that users peruse the first three chapters and Appendices of this report to better understand and interpret the results presented in chapter four. As a means for identifying potential areas for more intensive study, comparisons of the park's water quality data with relevant national EPA water quality criteria for appropriate designated uses² and with the Servicewide Inventory and

¹The use and/or mention of specific proprietary hardware or software packages is for informational purposes only and is not intended to connote or denote an endorsement.

²The Environmental Protection Agency's Quality Criteria for Water 1995 Final Draft (Silver Book) was the primary source of water quality criteria. In the spirit of the other caveats offered in this section, it is important to recognize that water quality criteria are often revised when new or better information become available.

Monitoring Program's "Level I" water quality inventory parameters have been made. Extreme caution must be exercised in interpreting the results of these comparisons. Observations that exceed water quality criteria may have occurred due to any number of natural or anthropogenic factors, as well as other reasons. For example, STORET is a "user-beware" water quality database system. While there is some rudimentary edit (bounds) checking of any data entered in STORET (See Appendix C), users are basically free to enter their own data. Beyond data entry errors, the possibility of inaccurate data entering the system due to inappropriate measurement techniques, sample mistreatment, and other reasons is a serious concern. Consequently, if observations for a particular parameter frequently exceed the EPA water quality criterion over a prolonged time period, the best approach is to examine in detail the data exceeding the criterion. Questions which should be asked regarding the data include: What water source(s) are manifesting the problem? Does the data make sense? Was it collected by a reputable organization following a sound study plan and employing accepted techniques? If the answers to these questions still cause concern, a specific cause and effect water quality investigation focusing on the parameters of concern may be warranted. Similarly, the absence of particular Servicewide Inventory and Monitoring Program "Level I" water quality parameters from the park only means that no entity or organization has collected and entered this data into the EPA's STORET database. Too frequently, data that are collected in and around NPS units never make it into the EPA's national water quality database. These data may exist in published or unpublished reports, file cabinets, or other databases. Before definitively concluding that no baseline data exist for a particular parameter, these alternative resting grounds for data should be investigated. Such a detailed exploration, however, was beyond the scope of this study.

Key Personnel

Many individuals contributed to the design and implementation of this project. The primary contributors and their roles in the project are briefly mentioned below.

National Park Service, Water Resources Division:

Dean Tucker was the Contracting Officer's Technical Representative responsible for designing, coordinating, and implementing all aspects of this effort.

Mike Matz coordinated and managed the team which prepared all components of the report.

Gary Rosenlieb provided administrative oversight and was involved in quality control for all tasks related to this project.

Barry Long and Roy Irwin reviewed technical tasks and provided water quality expertise related to data analysis.

Gary Smillie provided hydrologic expertise in the determination of hydrologic seasons.

Greg Harp and Clint Bassett helped prepare reports and write the Executive Summaries.

Elizabeth Eisenhauer, Dawn Grandbois, Bill Folsom, Dana Griffin, and Scott Ratchford provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

Kelli O'Connor, J. Chris Echohawk, Curtis Cooper, Adam Henson, Shawndra Mawhorter, Lisa Smith, Ryan Shy, Lisa Dummer, Eric Lord, Adriane Petersen, Margaret Matter, Richard Henderson, Ronda Burns, and Aria Brissette uploaded water quality data to STORET prior to report preparation.

Jacquie Nolan designed the cover.

Horizon Systems:

Cindy McKay served as Project Manager for Horizon Systems, performed the initial requirements analysis, and was involved in all quality control tasks related to the project.

Alan Cahoon was responsible for automating the procedures which produced the water quality databases and Water Quality Results chapter.

Sue Hanson, P.E., provided technical advice for writing this document.

Dr. Jim Loftis was the data quality analyst for the project.

Armando F. Ballofet, P.E., served as the local technical liaison between Horizon Systems and the NPS.

Other National Park Service:

Several other individuals provided invaluable technical review, comments, administrative support, and/or other assistance, including: Dan Kimball, Bill Jackson, Mark Flora, Gary Williams, John Karish, Brendhan Zubricki, Richard Hammerschlag, Randy Ferrin, Gary Vequist, Mike Martin, Kevin Berghoff, and Dyra Monroe.

METHODOLOGY

This section provides an overview of the procedures and criteria used to retrieve and analyze water quality data for each park unit. Generating baseline water quality data inventories and analyses for all NPS units is a monumental task. To accomplish this undertaking given a very limited budget, the procedures employed to produce each report had to be as generic and automated as possible. Consequently, customization of reports to individual park needs and issues was not feasible. Moreover, such customization was beyond the scope of this effort which was simply intended to produce baseline water quality data inventories for all parks rather than customized issue-driven reports. During the procedure-development stages of the project, specifications for the final product evolved, within the context of the aforementioned resource constraints, to focus on comprehensive water quality baseline data inventories and concise, descriptive statistical examinations of the available water quality data for each park unit. Detailed below are the data sources and final methods and procedures that were used to create the baseline water quality inventories, analyses, databases, and other products for each park unit. A thorough understanding of the limitations of the data sources and procedures described in this chapter and the next (Interpretive Guide to Water Quality Results) is a prerequisite to intelligent use of the results presented in this document.

Delineation of Park Study Area

The first step in retrieving water resources-related data for each park was deciding on a procedure to determine the study area boundary. Since water flows through parks, utilizing the park boundary as a simple query/study area was deemed inadequate. On the other end of the continuum, using the entire watershed as the study area was considered superfluous given: (1) the areal extent of certain park watersheds (eg. the entire Mississippi River); (2) the sheer volume of potentially irrelevant data such a large study area could generate; and (3) the resources required to specify the watershed for each park unit. The approach which was ultimately adopted - a modified hydrologic boundary - reflects a compromise between the park boundary and the entire watershed. Thus the study area employed for each park is an area extending at least three miles upstream and one mile downstream from the park boundary. Although these distances are somewhat arbitrary, this approach is easy to automate and was felt to limit the data retrieved, in most instances, to that of most importance to the park. Extending the query area one mile downstream of the park was intended to capture any data immediately downstream of the park which may reflect the quality of the water in the park. A current (as possible) copy of each park's boundary was obtained in digital format directly from the park or digitized from Regional land status maps, U.S. Geological Survey (USGS) quadrangles, or other sources. Using GIS techniques, the boundary was used to create the three miles upstream, one mile downstream buffer. For a few parks with which WRD water quality specialists were very familiar with potential water quality threats and/or valuable sources of data that may lie just outside the study area, the study area may have been tweaked (enlarged) to cover these areas of concern or interest. Unfortunately, a customized study area was not feasible for all park units. Hence, the three miles upstream, one mile downstream buffer was the primary study area employed for most parks. This study area was transferred to the EPA mainframe computer and used as the basis for all water resources-related data retrievals from the data sources described below.

Data Sources

The EPA maintains many mainframe data systems related to national water resources (U.S. Environmental Protection Agency 1992). Six of these data systems were used for this project:

- STOrage and RETrieval System (STORET) water quality parameter data, locations of sampling stations, descriptive elements about stations and parameters;
- Industrial Facilities Discharge (IFD) locations of industrial and municipal point source discharge facilities;

- Drinking Water Supplies (DRINKS) locations of intake pipes for drinking water supplies;
- Water Gages (GAGES) locations of USGS and other water gages;
- Water Impoundments (DAMS) locations of most large water impoundments (greater than 10,000 acre feet at normal pool volume) and many smaller impoundments; and
- River Reach File, Version 3 (RF3) 1:100,000 scale geographical representation of surface waters (rivers, lakes, etc.) with a unique identifier assigned to each surface water segment and connectivity information useful for routing and navigation.

STORET is the national water quality data repository (U.S. Environmental Protection Agency 1989). Water quality data is entered in STORET by public agencies (federal, state, or local) that collect water samples and/or perform laboratory analysis. As such, STORET is a "user-beware" data system. Although the EPA manages the STORET data system and, since November 1983, has imposed some minimum quality control criteria on the data (See Appendix C), data are generated and input to STORET by the "owner" agencies. Consequently, the EPA does not certify any data within STORET. Currently, there are over 800,000 active and inactive sampling stations and more than 225 million observations covering in excess of 13,000 water quality parameters entered in STORET. The earliest data dates back to the turn of the century. Using the bi-monthly update cycle, user agencies may store results of recent monitoring activities in STORET. Included in STORET is USGS WATSTORE water quality data, which is updated on a monthly basis. Although STORET contains a phenomenal amount of data, it is important to note that data exist in STORET only if the collectors decide to upload their data to the system. Since many agencies and researchers do not upload their data to STORET, the absence of water quality data in the system for a particular area doesn't mean that there has never been any water quality data collected for the area. The data may exist in published or unpublished reports, file cabinets, or in agency-specific databases. Identifying and retrieving these other sources of data were beyond the scope of the present effort. All parameter data and water quality station location data downloaded from STORET within the park's study area are included in DBASE III+ format files on disk(s) accompanying this report (See Appendices A and B).

The data within the IFD database are extracted from the EPA's Permit Compliance System (PCS). IFD contains the facility locations of all industrial and municipal dischargers which require a National Pollutant Discharge Elimination System (NPDES) permit to operate. Over 7,100 municipal, federal, and industrial facilities discharging into the waters of the United States are tracked by PCS and IFD. If any industrial facilities discharges exist within the study area, a file in DBASE III+ format documenting a variety of information about each discharge accompanies this report on disk (See Appendices A and B).

The EPA DRINKS database identifies locations of drinking water supply intakes. This file contains data for 850 supplies which serve more than 25,000 people, and 6,800 supplies which serve between 1,000 and 25,000 people. If any drinking water intakes exist within the study area, a file in DBASE III+ format documenting a variety of information about each intake accompanies this report on disk (See Appendices A and B).

The GAGES data originates primarily with the USGS and copies are maintained on the EPA mainframe computer for ease of integration with other EPA national data systems. Although other agency's water gages, as well as some artificial gages, may appear in GAGES, the vast majority of gages are stream gages belonging to the USGS. The GAGES database contains approximately 36,000 records for both active and inactive gaging stations. If any USGS or other agency stream gages occur within the study area, a file in DBASE III+ format documenting several fields of information about each gage accompanies this report on disk (See Appendices A and B).

The Water Impoundment database was originally compiled by the U.S. Army Corps of Engineers in response to a Congressional inquiry on dam safety hazards (GKY and Associates 1990). The EPA subsequently modified the database for use in water quality investigations. Of the 68,155 dams in the database, 2,125 are considered large (impounding 10,000 acre feet or more at normal pool volume). It is important to note that while the database includes entries for 66,030 smaller dams, estimates place the actual number of dams in the U.S. at several million

(including small farm ponds). If any water impoundments occur within the study area, a file in DBASE III+ format documenting several fields of information about each impoundment accompanies this report on disk (See Appendices A and B).

The RF3 data system is a hydrologic database of surface water features across the U.S. (excluding, at present, Idaho, Oregon and Washington, which currently operate a different system - although this data is expected to be converted to RF3 soon, Alaska and Hawaii). RF3 was created primarily from 1:100,000 scale USGS Digital Line Graph data. RF3 is made up of over 3,000,000 individual "reaches". A reach is generally defined as a portion of surface water between two confluences (U.S. Environmental Protection Agency 1993). The linework underlying RF3 contains over 95,000,000 coordinate points. RF3 is designed to facilitate hydrologic routing, identifying upstream and downstream elements, and specifying the exact location of any point on a stream network. RF3 data exists as a series of traces with associated attributes. The EPA project which is producing RF3 is being conducted in three phases: Compilation, Assessment, and Revision. The Compilation phase is complete except for Idaho, Washington, Oregon, and Alaska. The Assessment phase was completed during the first half of 1994; while the Revision phase was begun in March 1994. One important outcome of the Revision phase is that the reach codes which uniquely identify each surface water feature will change. Consequently, these codes should not be used, at this time, as keys for relating other data to RF3. The RF3 data provided with this document is provisional and should be used only to provide a geographic backdrop for the park's water quality data. RF3 data covering each USGS catalog unit (a geographic area representing a single or multiple drainage basin(s), or some other distinct hydrologic feature (U.S. Geological Survey 1982)) touched by the park's study area is included in ASCII export and DBASE III+ formats on the disk(s) accompanying this report (See Appendices A and B).

For additional information on any of these data systems, contact the EPA Office of Water at (202) 260-7028.

Data Retrieval and Analysis Procedures

The six EPA data systems discussed above reside on the EPA mainframe computer located in Research Triangle Park, N.C. Horizon Systems used a dedicated, leased telephone line with a data transfer rate of 9600 bits per second to download data occurring within the park's study area from all the databases. The bisynchronous communication software and hardware provided error checking during all data transfer procedures.

As described above, the park study/query area boundary was used to select the water quality stations, industrial facilities discharges, drinking water intakes, water gages, water impoundments, and river reaches associated with the park unit. For various reasons, screening criteria (described later in this section) were employed to select appropriate water quality stations, parameters, and observations. Horizon Systems wrote several mainframe programs to automate, to the greatest extent feasible, the STORET data retrieval and storage procedures. Once the data were extracted from the EPA data systems, they were downloaded to a microcomputer for statistical analyses and reformatted into DBASE III+ compatible format.

Specifically, once on the PC, the data were processed to:

- (1) Reformat the data into DBASE III+ format and other database structures;
- (2) Eliminate questionable data outside the STORET edit criteria ranges (See Appendix C);
- (3) Display on a map the location of water quality monitoring stations and other water resources themes;
- (4) Determine the frequency of water quality observations by station, parameter, and station/parameter;
- (5) Generate descriptive period-of-record water quality statistics in a tabular format;
- (6) Generate appropriate descriptive annual and seasonal analyses of the water quality data in a tabular format:
- (7) Plot appropriate period of record time series and annual and seasonal box-and-whisker graphs;
- (8) Compare the water quality data against relevant EPA national criteria; and

(9) Compare the water quality data against the NPS Servicewide Inventory and Monitoring Program's "Level I" water quality parameters.

Special customized microcomputer programs (primarily written in Clipper and Microsoft Professional BASIC) and procedures were created to address each of these tasks. All reformatted database files are included on disk(s) accompanying this document. The contents of these databases are described briefly below. Complete database structures are included in Appendices A and B. The descriptive water quality tabular statistics (see "Statistical Analyses" below) were computed based upon NPS specifications. Command or batch files were generated to drive STATGRAPHICS 7.0 in order to produce all the time series and box-and-whiskers plots.

Park Unit Databases

Up to seven digital databases in DBASE III+ and other formats have been created for the park by querying the water resources-related data sources described above. The disk(s) containing these databases accompany the report. The contents of each of these databases are discussed briefly below. More detailed documentation of these databases is included in Appendices A and B.

- (A) Water Quality Parameter Data: This database includes all the water quality parameter data downloaded from STORET that passed the STORET Edit Criteria, Date, Station Type, and Phase 0 Parameter screens (described below) and is summarized tabularly and graphically in this document. This constitutes the park's baseline water quality data. Since it is already in digital format, more sophisticated analysis of the data is possible than the descriptive statistics and graphics presented here.
- (B) Water Quality Station Locations: This database consists of the STORET header information describing each station where water quality data was collected. As the latitude and longitude of the station are included in the database, this file is easily imported into the park's GIS.
- (C) Industrial Facility Discharge Locations: This database includes any industrial or municipal point source discharges located within the park's study area. As the latitude and longitude of each discharge facility are included in the database, this file is easily imported into the park's GIS.
- (D) Drinking Water Intake Locations: This database includes any drinking water intakes located within the park's study area. As the latitude and longitude of each intake are included in the database, this file is easily imported into the park's GIS.
- (E) Water Gage Locations: This database includes water (stream, lake, estuary, well, spring, climate, or other) gages located within the park's study area. Most of the gages will likely be stream gages belonging to the USGS. As the latitude and longitude of each gage are included in the database, this file is easily imported into the park's GIS.
- (F) Water Impoundment Locations: This database includes any water impoundments (dams) located within the park's study area. As the latitude and longitude of each impoundment are included in the database, this file is easily imported into the park's GIS.
- (G) River Reach Data: This database includes all stream traces (1:100,000 scale) and attributes for reaches falling within any USGS catalog unit that touches the park's study area. The traces are geo-referenced in ASCII format. The attributes are in both ASCII export and DBASE III+ formats. This information is also readily incorporated into the park's GIS.

The absence of any of these seven files from the disk(s) accompanying the report indicates that there was either no data of this type within the park's study area or the data was unavailable. Several other files are included on the disk(s) accompanying this report, including digital copies of all the figures and tables contained in the document and some other items. Refer to Appendices A and B for detailed documentation of these files. Not included on

disk is an Encyclopedia File (for WRD reference) that documents the minimum and maximum values for each water quality parameter and the parks in which those values were recorded. When Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks, this Encyclopedia File will be available upon request from the NPS WRD.

Screening Methodologies and Procedures

Developing automated or semi-automated procedures to produce baseline water quality inventories and analyses for all national park units required constant testing and debugging of procedures. Three parks, Rock Creek Park, Yellowstone National Park, and Indiana Dunes National Lakeshore, were used to pilot test and refine the automated procedures. It became evident, after a preliminary analysis of all the downloaded STORET data, especially for Indiana Dunes National Lakeshore, that the specifications for the graphical analyses could generate hundreds (possibly thousands) of plots, many of which would not necessarily be useful. Also, there were many stations; parameters; and/or observations downloaded that were not part of the study's objectives; not overly useful; or of dubious quality. In order to reduce the number of graphical plots (time series, annual and seasonal box-and-whiskers) to fit within project resources, various screening criteria were investigated. Ultimately, a comprehensive set of screening criteria were developed to reduce the number of graphical plots. After initial counts of the total number of possible time series and annual and seasonal box-and-whiskers plots were generated, these counts were used to decide which screening criteria would be applied to limit the number of these plots produced for the park unit. Additional screening criteria were employed to restrict the tabular descriptive statistics results to only those deemed useful to the park. Table A provides the categories of screening criteria and to which analyses the screens were applied. A "yes" entry in the table means that the screening category eliminated or prevented data from appearing in certain tables and plots contained in the document. Consequently, in understanding how data from STORET was used in this report, it may be helpful to keep in mind the three general types of screening criteria: (1) screens that apply to stations; (2) screens that apply to certain parameters at stations; and/or (3) screens that apply only to particular observations of parameters at stations. A detailed description of each of the screening criteria categories follows this table. It is important to note that statistics in "Inventory" reports may not be consistent with statistics in "Overview" reports since different categories of screening criteria were applied. Also, if attempting to replicate the results of the statistical and graphical analyses presented in this document, be sure to follow the same screening methodologies.

STORET Edit Criteria

As mentioned previously, STORET is a "user-beware" data system. As the EPA doesn't certify any data in STORET, public agencies enter and are responsible for the quality of their own data. Only data entered since November 1983 have been subjected to any rudimentary edit/bounds checking. Agencies entering data since this date can elect to override the edit/bounds checking for individual observations. USGS WATSTORE water quality data is entered into STORET without any EPA edit/bounds checking to ensure data integrity between WATSTORE and STORET. Unfortunately, during the course of our pilot tests, erroneous USGS and EPA water quality data values were discovered. In order to eliminate as much "bad" data as possible, all water quality data downloaded from STORET was subjected to automatic edit/bounds checking (STORET Edit Criteria contained in Appendix C) for the 190 most common parameters. Observations falling outside the STORET Edit Criteria were documented (See the Water Quality Observations Outside STORET Edit Criteria for Park section in the Water Quality Results chapter) and then retained or discarded from the database and all tables and plots based on whether the value was judged as being in the realm of possibility. Although the STORET Edit Criteria screen likely removed some "bad" data for these common parameters, the probability of other erroneous data in the database is high. Be sure to consult the Caveat section in the Introduction.

Table A. Categories of Screening Criteria and to Which Output Products They Apply (A "yes" Entry Means the Screening Category Eliminated or Prevented Data From Being Used in the Product):

Screening Category	Data Download	Overview Tables	Inventory Tables	Annual Tables	Seasonal Tables	Standards Tables	Plots (All)
STORET Edit Criteria	yes	yes	yes	yes	yes	yes	yes
Date	yes	yes	yes	yes	yes	yes	yes
Station Type	yes	yes	yes	yes	yes	yes	yes
Phase 0 Parameter	yes	yes	yes	yes	yes	yes	yes
Phase 1 Parameter	no	no	yes	yes	yes	yes	yes
Media Type	no	no	yes	yes	yes	yes	yes
Remark Codes	no	no	yes	yes	yes	yes	yes
Composite Type	no	no	yes	yes	yes	yes	yes
Phase 2 Parameter	no	no	no	no	no	no	yes
Observations/Period of Record	no	no	no	yes	yes	no	yes

Date Screen

Every water quality observation in STORET typically has a sampling date associated with it. Unfortunately, STORET does not prevent users from entering incorrect dates. Consequently, any water quality observation with an incorrect and/or suspect date (eg. a month greater than 12; a day greater than 31; or a sample date later than the STORET retrieval date) were discarded.

Station Type Screen

STORET contains data from a wide variety of stations classified by the type of waterbody in which samples were collected. As this project's purpose was to inventory and analyze surface-water quality, the following surface-water station types were retrieved (clarification provided in parentheses):

Station Types Included In Retrieval

- (a) STREAM
- (b) CANAL
- (c) LAKE
- (d) RESERV (Reservoir)
- (e) SPRING
- (f) FWTLND (Fresh Water Wetland)
- (g) SWTLND (Salt Water Wetland)
- (h) ESTURY (Estuary)
- (i) OCEAN

Ground water and/or other station type data may have been retrieved if the entering agency classified the station type incorrectly. Rectifying this error was beyond the scope and resources of this project.

Phase 0 Parameter Screen

Nearly all water quality parameters associated with each station type listed above were retrieved. The only exception to this was the exclusion of most of the STORET administrative parameters. A complete list of STORET administrative parameters is included in Appendix D. The few administrative parameters that were included in the retrievals are as follows:

Code	STORET Administrative Parameter Description
00027	Code No. for Agency Collecting Sample
00028	Code No. for Agency Analyzing Sample
00063	Sampling Points, Number of In a Cross Section
00111	Ratio of Fecal Coliform to Fecal Streptococci
00115	Sample Treatment Code (1=Raw, 2=Treated)
34772	NPDES Number, Cross Reference
45580	Method of Analysis
74065	Stream Flow Class
74066	Annual Runoff
74067	Soil Classification
74068	Water Quality Designated Use Classification

Phase 1 Parameter Screen

Some of the data retrieved from STORET was not suitable for statistical or graphical analysis. Consequently, this screening criterion eliminated all parameters which were not suitable for statistical or graphical analysis within the context of this project. The full list of these parameters is presented in Appendix E. Examples of parameters excluded from statistical and graphical analysis include the administrative parameters mentioned above, land use acreage, encoded values, dates, latitude/longitude, etc. Excluded parameters do, however, appear in the Parameter Period of Record and Station/Parameter Period of Record (two of the "Overview" Tables), as well as in the water quality parameter file included on disk(s) accompanying this report.

Media Type Screen

Water quality samples can be taken in a variety of aqueous media. Water quality data were retrieved from STORET only if the media were WATER or VERT (vertically integrated). WATER and VERT samples comprise the overwhelming majority of samples in STORET. The media screen eliminated the following water quality sampling media:

Media Screen	Description
BOTTOM	Sampled At the Bottom
DREDGE	Sampled By Dredge
PORE	Pore Sample
CORE	Core Sample

Remark Code Screen

STORET enables the agency collecting water quality samples to provide a qualifying remark for each parameter observation. These remarks provide additional information about the measured or observed value entered into STORET (See Appendix B - Parameter Data File for a complete listing and description of all remark codes). Based on the STORET remark codes, two potential screens were applied to water quality observations based on whether the measured value was used in subsequent analyses: (1) Elimination or (2) Modification/Inclusion.

Elimination:

Non-composite water quality parameters with the remark codes presented in Table B were eliminated from the period of record, annual, and seasonal descriptive statistics and graphics. Not including observations with these remarks was justified by the fact that most of the remarks: (A) indicate either less confidence in the measured value; (B) are remarks for nominal or categorical data that doesn't lend itself to statistical analysis; or, (C) complicate the statistical analysis beyond the scope of this effort. Observations containing these remark codes comprise a very small fraction of the data. Although statistical analyses weren't undertaken on this data, all water quality observations, regardless of remark code, are included on disk(s) accompanying this report. If you reanalyze this data in order to replicate the results presented here, be sure to eliminate all non-composite observations with the remark codes presented in Table B.

Table B. Non-composite Parameters With the Following Remark Codes Were Eliminated From Statistical and Graphical Analysis:			
Remark Code	Description of STORET Remark Code		
F	Female Species.		
J	Estimated, Not the Result of Analytic Measurement.		
М	Presence Verified, But Not Quantified, Below Quantification Limit. For Species, Male. For Oxygen Reduction Potential, Indicates Negative Value.		
N	Presumptive Evidence of Presence.		
О	Analysis Lost.		
V	Analyte Was Detected In Sample and Method Blank.		
W	Less Than Lowest Value Reportable Under Remark "T".		
Z	Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value.		

Modification/Inclusion:

Water quality parameter observations with the remark codes presented in Table C were halved prior to inclusion in period of record, annual, and seasonal descriptive statistics and graphics. These remark codes deal with observations that were below the detection limit for the parameter. The common water quality data analysis convention for these remark codes is to use half of the detection limit in statistical analyses (Ward, Loftis, and McBride 1990; Gilbert 1987). Although this is a somewhat defensible treatment of observations below the detection limit, the statistics that may be computed using these halved values may not be defensible. Consequently, any computed statistics in inventory, annual, or seasonal tables that are comprised of 50% or more K, T, and U remark codes are footnoted "Computed with 50% or more of the total observations as values that were half the detection limit." This will provide the user with some caution in using and interpreting these results. Water quality data included on disk(s) accompanying this report that may have these remark codes are stored as the original entry (detection limit). If you re-analyze this data in order to replicate the results presented here, be sure to substitute half the detection limit value in the database whenever these remark codes are encountered.

Table C. The Value of Water Quality Parameters With the Following Remark Codes Were Halved (Half of the Detection Limit Entered In STORET) Prior to Inclusion In Descriptive Statistics and Graphics:			
Remark Code	Description of STORET Remark Code		
K	Off-scale Low, Actual Value Not Known, But Known to Be Less Than Value Shown.		
T	Less Than Detection Criteria.		
U	Analyzed For But Not Detected, Value is Detection Limit For Process Used. If Species, Undetermined.		

Composite Type Screen

Sometimes data entered in STORET represent something other than a single measurement at one location at one point in time. These samples are typically referred to as composite samples due to the fact that they vary temporally and spatially. Consequently, the observation entered into STORET for composite data is typically a computed value that summarizes the data over time and/or space. Such data complicate statistical and graphical analyses and must be handled separately. Such treatment was beyond the scope of this study; although composite values typically represent only a fraction of STORET observations. The composite type screen eliminates all composite observations from statistical and graphical analyses, except those with a composite type code of "A" that have a one day or less sampling period and those with a composite type code "D". All water quality observations, regardless of composite type code, are included on disk(s) accompanying this report. If you reanalyze this data in order to replicate the results presented here, be sure to exclude all composite observations except those with a code of "A" that have a one day or less sampling period and those with a code of "D". Table D presents a list of possible STORET composite type codes.

Table D. Possible STORET Composite Type Codes			
Composite Type Code	STORET Composite Type Description		
A	Average		
Н	Maximum		
L	Minimum		
N	Number of Observations		
#	Number of Observations		
S	Standard Deviation		
U	Sum of Squares		
V	Variance		
С	Coefficient of Error		
X	Coefficient of Variance		
Е	Skewness		
F	Kurtosis		
Z	Number of Obs. That Exceed An Established Limit		
%	Precision		
\$	Accuracy		
В	N/A		
D	Indicates Replicate Sample		

Phase 2 Parameter Screen

Due to budgetary limitations, the number of graphical plots (time series, annual and seasonal box-and-whiskers) produced had to be manageable - typically no more than 100 total plots. After scrutinizing the results of the pilot tests and the Baseline Water Quality Data Inventory and Analysis Reports produced for the first group of parks, the 19 parameters which, typically, were the most frequently measured at nearly all stations were water temperature, stage, discharge, and various meteorological measurements (See Table E). Consequently, most of the graphical plots produced would be of water temperature, stage, discharge, and meteorological conditions. Although these are important parameters, particularly in conjunction with other water quality parameters, it was felt that plotting resources would be better allocated to other water quality parameters. Consequently the STORET parameter codes listed in Table E never generated graphical plots. It is important to note, however, that these parameters are included in all other aspects of the project, including all applicable period of record, annual, and seasonal descriptive statistics tables.

Table E. Frequently Measured STORET Codes That Were Prevented From Generating Plots		
STORET Parameter Code	STORET Parameter Description	
00003	Sampling Station Location, Vertical (Feet)	
00010	Water Temperature (Degrees Centigrade)	
00020	Temperature, Air (Degrees Centigrade)	
00021	Temperature, Air (Degrees Fahrenheit)	
00025	Barometric Pressure (MM of HG)	
00032	Cloud Cover (Percent)	
00035	Wind Velocity (Miles Per Hour)	
00036	Wind Direction in Degrees from Trun N (Clockwise)	
00040	Wind Direction (Azimuth)	
00045	Precipitation, Total (Inches Per Day)	
00046	Precipitation, Total (Inches Per Week)	
00052	Humidity, Relative (Percent)	
00061	Stream Flow, Instantaneous (CFS)	
00065	Stream Stage (Feet)	
81903	Depth of Bottom of Water @ Sample Site (Feet)	
82553	Rainfall In 1 Day Inclusive Prior to Sample (Inches)	
82554	Rainfall In 7 Days Inclusive Prior to Sample (Inches)	
82371	Rainfall In 3 Days Inclusive Prior to Sample (Inches)	
82372	Rainfall In 14 Days Inclusive Prior to Sample (Inches)	
85599	Precipitation, Total/Period-Rain Equivalent (Cm/Sample)	

Observations/Period of Record Screen

Despite never plotting water temperature, stage, discharge, and meteorological measurements, the number of plots generated by some parks still exceeded the 100 plot limit. Also, some rationale was needed to plot only those parameters with sufficient data density to make a meaningful statistical graphic. For example, time series plots comprised of only a few observations or annual or seasonal box-and-whiskers plots with limited observations and/or data in only one or two years or seasons are not very informative. Consequently, a number of plotting criteria were developed to limit the number of time series and box-and-whiskers plots to, at most, 100 informative graphics by using each parameter's number of observations and period of record. Similar, albeit less stringent criteria, were used for including results of annual and seasonal analyses in descriptive statistics tables. Consequently, there are more summaries of annual and seasonal results in tables than in graphics. Whenever an entry in an annual or seasonal table generated a plot, this entry was footnoted to notify the reader of the presence of the graphic. Due to differing quantities of data at parks, different screening criteria were employed. The same

criteria for appearance in seasonal and annual tables were used for all parks. Table F presents the least stringent plot screens.

Table F. Least Stringent Plot Screening Criteria Used to Limit the Number of Plots Generated

Time Series:

To generate a time series plot, a station/parameter combination must have a period of record of at least 2 years and a total of at least 8 observations.

Annual Analysis:

To generate an annual box-and-whiskers plot, a station/parameter combination must have at least 9 observations in each of at least 4 years. The years do not have to be consecutive.

Seasonal Analysis:

To generate a seasonal box-and-whiskers plot, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years. The years do not have to be consecutive.

The exact three plot screens used varied by park unit and are documented in the Overview section of the Water Quality Results chapter. If your park's plotting criteria deviated from these least stringent criteria, it is because too many plots would have been generated using these criteria.

The criteria used for appearance of station/parameter combinations in annual and seasonal analysis tables are presented in Table G. These tabular criteria, which are actually the least stringent plotting criteria, were constant from park to park.

Table G. Criteria Used for Generating Entries in Annual and Seasonal Analysis Tables

Annual Analysis:

For an entry to appear in an annual table, a station/parameter combination must have at least 9 observations in each of at least 4 years. The years do not have to be consecutive.

Seasonal Analysis:

For an entry to appear in a seasonal table, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years. The years do not have to be consecutive.

Statistical Definitions

Since this report is intended only to characterize historical and/or existing water quality at the park rather than address specific water quality problems, only simple descriptive statistics are presented. Inferential and non-parametric statistical analysis to examine relationships and trends were beyond the scope of the study. The complete water quality dataset is provided on disk accompanying this report to afford the opportunity for more detailed exploratory data analysis. The descriptive statistics are included in the inventory, annual, and seasonal tables. Table H provides a brief definition of each descriptive statistic provided for each parameter at a station.

Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

Observations: The number of samples collected.

Median: The median is the 50th percentile or the value in a dataset sorted in

ascending order that exceeds 50% of all observations, yet is also exceeded

by the remaining 50% of all observations.

Mean: The sum of all observations collected divided by the number of

observations.

Maximum: The maximum value observed.

Minimum: The minimum value observed.

Variance: This is a measure of variability or dispersion of the observations; or, in other

words, describes how many observations are close (or far), from the mean. It is calculated as the weighted average of the squared deviations from the

mean.

Standard

Deviation: The positive square root of the variance.

10th Percentile: The value in a dataset sorted in ascending order that exceeds 10% of all

observations, yet is itself exceeded by the remaining 90% of all

observations.

25th Percentile: The value in a dataset sorted in ascending order that exceeds 25% of all

observations, yet is itself exceeded by the remaining 75% of all

observations. The 25th percentile is also known as the first quartile.

75th Percentile: The value in a dataset sorted in ascending order that exceeds 75% of all

observations, yet is itself exceeded by the remaining 25% of all

observations. The 75th percentile is also known as the third quartile.

90th Percentile: The value in a dataset sorted in ascending order that exceeds 90% of all

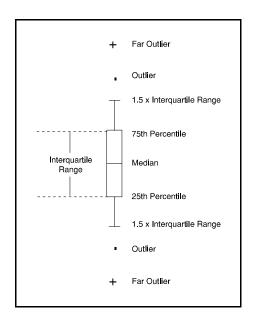
observations, yet is itself exceeded by the remaining 10% of all

observations.

As with the tabular descriptive statistics, the scope of the project limited the generation of exploratory graphics to time series plots and annual and seasonal box-and-whiskers plots. Plots were only generated, however, provided the parameter met or exceeded the relevant plotting criteria specified in the previous section.

Time series plots display the parameter concentration on the Y-axis and the date on the X-axis. This provides the user with a visual feeling for not only the parameter's concentration and variability over time, but also the density of data in different time periods. The time series plots provide a visual representation of the data in the basic station inventory. Due to software limitations, a line connects each measured value in sequence regardless of the time period between samples. Readers are cautioned not to assume that the concentration of the parameter between any two data points can be represented by a straight line. It is likely that the concentration varied between any two observations, particularly if the observations are separated by a significant time period.

The annual and seasonal box-and-whisker plots provide a graphical overview of the measured data and give the user a better understanding of the data's distribution and possible outliers. In essence, the box-and-whisker plots provide a visual representation of the data contained in the annual and/or seasonal tables. The interpretation of the boxes is provided in the figure to the right. Each box encompasses the middle 50 percent of measured values (from the 75th to 25th percentiles). The difference between the 75th and 25th percentiles is also known as the interquartile range. The horizontal line inside each box is the median or 50th percentile. The lines which extend out from each end of the box are the whiskers. The whiskers extend out from first quartile (25th percentile) and third quartile (75th percentile) to the smallest data point within 1.5 interquartile ranges from the first and third quartiles. Observations that extend beyond the whiskers are known as outliers. Far outliers are observations whose values lie more than three interquartile ranges below the first quartile or above the third quartile. These are designated with plus signs.



INTERPRETIVE GUIDE

TO WATER QUALITY RESULTS

This interpretive guide discusses each of the products presented in the next chapter - Water Quality Results. This chapter highlights how each of the tables and figures were prepared and how they can be used. Each subheading in this chapter corresponds to a particular product in the subsequent Water Quality Results chapter.

Overview

The Overview provides a brief one-page summary of the results of the various database retrievals for both the study area and the park. The study area results include the park results since the study area encompasses the park and all lands and waters within at least 3 miles upstream and 1 mile downstream of the park. Thus, the GIS estimated acreage of the study area should always be greater than the park acreage. The park acreage was computed from the digital boundary that was obtained for the park. More than likely this acreage will differ, perhaps significantly, from the "official" published acreage for the park due to the spatial and temporal accuracy of the digital boundary, treatment of inholdings, and other concerns. The number of STORET stations is the number of locations within the study area and park where an agency monitored (or intended to monitor) water quality. The number of stations with no data reveals the number of stations created in STORET for which water quality data were never entered. The number of stations with no statistical analysis reports the number of stations in the study area and park that contain data not amenable to normal parametric statistics. The number of longer term stations indicates the number of stations in the study area and park with at least 6 parameters having periods-of-record extending 2 years with an average of at least 1 observation per year over the period-of-record. The date of STORET retrieval is the calendar date when Horizon Systems downloaded all the data from STORET. Thus, the report documents all data entered in STORET prior to the retrieval date. Keep in mind that an agency can upload archival data at any time. Consequently, a retrieval date only guarantees that as of that date, this report contains all the data that had been entered into STORET. The period of record is the earliest date for which water quality data exist in STORET for the study area and park up to the date when the most recent data were entered prior to the retrieval date. The number of parameters measured is the number of unique water quality parameters measured within the study area and park and entered in STORET. The number of water quality observations is the sum of the total number of observations across all parameters within the study area and park. The number of industrial/municipal facilities discharges, drinking water intakes, water gages, and water impoundments are the number of each of these entities found within the study area and park. The number of time series, annual, and seasonal plots are the number of these different types of graphics produced by station/parameter combinations within the study area and park using the plotting criteria described in the previous chapter. The hydrologic seasons, described below, are the seasons used for the seasonal water quality data analysis. The time series, annual, and seasonal criteria are the plot and tabular screening criteria described in the previous chapter.

Regional Location Map

The Regional Location Map provides a small scale, general representation of the park and study area location within the United States. Digital, reproducible copies of this graphic are included on the disk(s) accompanying this report.

Water Quality Monitoring Locations Map(s)

The Water Quality Monitoring Locations Map(s) usually provides a larger scale representation of the park and study area than the Regional Location Map. This map indicates the locations within the study area where water quality has been monitored and the data entered into STORET. The water quality monitoring stations are labelled sequentially with the rightmost significant digits. The station names were assigned in numerically ascending order by latitude (for parks with a greater north-south extent than east-west) or longitude (for parks with a greater east-

west extent than north-south). Thus, this map serves as a visual index to the water quality data contained in the report. Since the 1:100,000 scale hydrography (from the River Reach File Ver. 3.0 or other sources) is displayed on the map, users can refer to the map to locate the station number on the reach in which they are interested and then find the appropriate section in the report that documents the water quality at that station. If the scale allows, USGS catalog units are also displayed on the map to provide an approximation of drainage basins. More than one Water Quality Monitoring Location map may be presented if the scale requires breaking the area into multiple maps for legibility. If multiple maps are necessary, an index map showing the geographic extent of each sub-map or panel will be present. Digital, reproducible copies of this graphic are included on the disk(s) accompanying this report. The digital, geo-referenced data files documented in Appendices A and B will allow the park to create water quality monitoring stations as a coverage in their GIS.

Dischargers, Drinking Intakes, Gages, and Impoundments Map(s)

The Dischargers, Drinking Intakes, Gages, and Impoundments Map(s) displays the same information as the Water Quality Monitoring Location Map(s) except the water quality stations are replaced by industrial/municipal facilities discharges, drinking water intakes, active and inactive gage locations, and water impoundments. This map also serves as a visual index allowing the user to determine the identification code of each discharger, drinking intake, gage, or impoundment. This number can then be used to obtain additional information about the entity on the following page of the report or to refer to the more detailed database files accompanying the report on disk. These more detailed database files are geo-referenced (See Appendices A and B), thus allowing the park to create these coverages in their GIS. More than one Dischargers, Drinking Intakes, Gages, and Impoundments map may be presented if the scale requires breaking the area into multiple maps for legibility. If multiple maps are necessary, an index map showing the geographic extent of each sub-map or panel will be present. Digital, reproducible copies of this graphic are also included on the disk(s) accompanying this report.

Industrial Facilities Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Table

This table provides some additional information about each of the discharges, drinking intakes, water gages, and water impoundments displayed on the previous map(s). This information generally includes the site identification number; the station or facility name; an address or some other indication of location; and some other pertinent information. More detailed information about each of these entities is contained in the database files on disk accompanying the report (See Appendices A and B).

Representative Mean Annual Hydrograph for Seasonal Analysis

One component of the water quality data analysis contained in the document is a seasonal analysis of the data (where adequate data exist). In order to undertake this analysis, some representation of the park's seasons was required. Seasons can be based on many factors (eg. hydrologic, climatic, recreational use, etc.). Since project resources did not allow us to contact every park and discuss with resource management staff what appropriate seasons may be for the park, WRD staff elected to adopt primarily a hydrologic/climatic definition of the seasons which uses a process of hydrograph separation to glean seasons from stream discharge patterns. The procedure employed to make these determinations was as follows:

(1) Find the nearest USGS Hydro-Climatic Data Network (HCDN) station (U.S. Geological Survey 1992) to the park that is most representative of streamflow conditions at the park. The HCDN is basically a subset of USGS streamflow stations, including only those stations that are unaffected by artificial diversions, storage, or other disruptions of the natural channel. All HCDN stations generally have at least a 20 year period of record. Consequently, discharge patterns at these stations should reflect only hydrologic and climatic influences. For the most part, selected HCDN sites were typically within 15-20 miles of the park. In some parks where WRD staff were aware of the existence of a stream gage located within the park that would be more representative of park waters even though it wasn't an HCDN site, this gage was selected.

- (2) Retrieve the daily discharge values for the selected station from the USGS Daily Values File and generate a mean annual hydrograph and a box-and-whiskers plot of daily flows by month.
- (3) Interpret the plots based on our knowledge of the hydrologic regime at these parks and assign seasons.

This approach, used for the majority of parks, assumes that most water quality data at the park will be found in streams and that the discharge pattern of the selected stream is representative of the seasons for all park waterbodies. Although this assumption may be weak for certain parks, project resources did not allow a more thorough investigation. For parks where there wasn't any stream gage (HCDN or otherwise) deemed representative of park waters, precipitation records from a nearby meteorological station were obtained from the National Climatic Data Center. Plotting daily average precipitation and box-and-whiskers of monthly precipitation sums allowed WRD hydrologists to make a rough approximation of climatic seasons for use in analyzing the water quality data.

Again, it is important to note the many ways of defining "seasons" and thus the limitations of the seasonal analysis contained in this document. For certain parks it may be more useful to perform a seasonal analysis with seasons defined by recreational use patterns or some other natural or anthropogenic factor. This option is available to the park since all the water quality data analyzed in this document is contained on disk(s) accompanying this report. Digital, reproducible copies of this seasonal analysis graphic are also included on the disk(s) accompanying this report.

Contacts for Agency Codes Retrieved

This table provides a list of the organizations who have entered data into STORET. A contact name at the organization and a phone number are also supplied. The agency code in the first column is the key for identifying which stations belong to that agency. This code will appear in the first line of each station's inventory. Although the agencies listed in this table are potential partners for future water quality monitoring or management endeavors, don't be surprised if the name of the contact and/or the telephone number is out of date. This information is entered when an agency first creates a station. The agency may not update this information when the initial contact moves on or the telephone number changes. Nonetheless, it is likely that the contact or someone else at the agency may be able to provide you with project reports or other information relative to the agency's data. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Quantity of Data Retrieved by Agency Code

This table displays the period-of-record; numbers of water quality stations, longer-term stations, and stations without data; total number of water quality observations; and the number of unique water quality parameters measured by each agency within the study area and park boundary. Using this table, a park can quickly determine which agencies collect the most data in and around the park and whether they have monitored recently. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station Period of Record Tabulation

The Station Period of Record Tabulation provides a quick overview of the names of all the stations within the study area where water quality has been monitored and data entered into STORET. It also furnishes the total number of observations taken at each station and the frequency of observations between certain dates: (1) 01/01/85 until the most recent date data were measured; (2) 01/01/75 - 12/31/84; and (3) prior to 01/01/75. The station identification number, the four character park abbreviation code followed by a four digit number, provides the means to jump from a particular station in the table to the statistical and graphical analyses for this station contained in the Station-By-Station Results section. The Station Period of Record Tabulation reveals which water

quality stations were situated within the park as defined by the park's GIS boundary. The Station Period of Record Tabulation also footnotes longer-term water quality stations. Longer-term stations are those that have at least 6 parameters with an average of one or more observations per year for those parameters during a period of record extending at least two years. Note that although a station may not be flagged as longer-term, it can still harbor much important data (albeit for only a few parameters or over a very long term with just a few observations). A digital copy of this table accompanies this report on disk (See Appendices A and B).

Parameter Period of Record Tabulation

The Parameter Period of Record Tabulation provides a complete listing of every water quality parameter ever measured in the study area and entered into STORET. This table is a summation of all the water quality observations for each parameter across all stations in the study area. Like the Station Period of Record Tabulation, the total number of observations for each parameter and the frequency of observations between: (1) 01/01/85 until the most recent date data were measured; (2) 01/01/75 - 12/31/84; and (3) prior to 01/01/75 are provided. This table is handy for quickly assessing whether particular parameters have been measured in the study area. The Parameter Period of Record Tabulation also shows how many in-park (and total) water quality stations contained data for each parameter. Some administrative parameters and parameters not suitable for statistical analysis within the context of this project (as discussed in the Screening Methodologies and Procedures section of the Methodology chapter) are listed in the Parameter Period of Record Tabulation, but not in the Station-By-Station Results section. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station/Parameter Period of Record Tabulation

The Station/Parameter Period of Record Tabulation combines the information found in the Station Period of Record Tabulation and the Parameter Period of Record Tabulation. This table provides a listing of all the stations where a particular water quality parameter was measured in the study area and the data entered into STORET. The table provides the start and end dates of the period of record of each parameter at each station; the number of years of measurement (computed from the start and end dates); whether the station/parameter combination occurred within the park boundary; the total number of observations for each parameter at each station, and whether a time series (T), annual (A), and/or seasonal (S) plot was generated for the station/parameter combination in the Station-By-Station Results section. This table is very useful when you need to determine at which locations within the study area (or park) particular parameters were monitored and how much data was collected there. Some administrative parameters and parameters not suitable for statistical analysis within the context of this project (as discussed in the Screening Methodologies and Procedures section of the Methodology chapter) are listed in the Station/Parameter Period of Record Tabulation, but not in the Station-By-Station Results section. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station-By-Station Results

Probably the most voluminous portion of the document is the Station-By-Station Results. Here the results of the water quality analyses for each station are presented in sequence. The results include the station inventory; parameter inventory; EPA water quality criteria analysis; and, as applicable, time series graphics and annual and seasonal tables and box-and-whiskers graphics. Each of these products are discussed below.

Station Inventory for Station

Each station's data commences with its Station Inventory. The Station Inventory provides the descriptive attributes about each water quality monitoring station contained in STORET. This includes a variety of locational information such as a verbal description, the Federal Information Processing codes for county and state, latitude and longitude, and other items; the station type (stream, spring, estuary, etc.); monitoring agency; creation date; indices to the River Reach File; whether the station lies within the park boundary; and several other attributes. This water quality station location data is also contained on disk(s) accompanying the report (See Appendices A and B).

Parameter Inventory for Station

Following the descriptive attributes about a station is the Parameter Inventory for the station. The Parameter Inventory provides a complete inventory and descriptive summary of all the water quality parameter data for the station. This table furnishes the parameter STORET code and name; the period of record for this parameter at this station; and the descriptive statistics defined in the Statistical Definitions in the previous chapter. Three different footnotes can appear on a parameter's descriptive statistics. Two asterisks (**) in the 10th, 25th, 75th, or 90th percentile columns indicates that there was insufficient data to compute these statistics for this parameter. Percentiles were not computed unless the parameter had at least 9 observations. Two number signs (##) next to the number of observations indicates that more than 50 percent of the observations entered into the computations as values that were taken to be half the detection limit. Caution should be employed in interpreting and using statistical results when more than half the values are set to half the detection limit. The letter "p" following a numeric STORET parameter code in the Parameter Inventory indicates that a time series plot was produced for this parameter at this station. Digital, reproducible copies of the Parameter Inventory tables are contained on the disk(s) accompanying this report.

Two downloaded parameter groups, pH and bacteriological, received special treatment whenever descriptive statistics were computed in the Parameter Inventory (as well as subsequent annual and seasonal tables). Whenever pH appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original pH entry; (2) pH computed from conversion to and from $\mu eq/l$ H⁺; and (3) $\mu eq/l$ H⁺. The reason for these conversions is that pH is actually the negative logarithm of the hydrogen ion concentration. To be technically correct in computing descriptive statistics, pH values must be converted to $\mu eq/l$ H⁺ (Kunkle and Wilson 1984). Once the descriptive statistics are computed using the pH values expressed as $\mu eq/l$ H⁺, the results can be converted back to pH. The three pH entries in the descriptive statistics table will all have the same STORET code.

Whenever a bacteriological parameter appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original bacteriological entry; (2) an entry computed using the log of each measured value; and (3) an entry that simply reports the geometric mean. The reason for converting to logs and displaying the geometric mean is convention. Bacteriological water quality standards typically reference the geometric mean rather than the arithmetic. The three bacteriological entries in the descriptive statistics tables will all have the same STORET code.

EPA Water Quality Criteria Analysis for Station

The EPA Water Quality Criteria Analysis table follows the Parameter Inventory. This table presents a comparison between the station's STORET water quality data and applicable national water quality criteria for freshwater and marine aquatic organisms; drinking water; and other concerns. Comparison against applicable State water quality criteria was not feasible given project resources. Appendix F provides the relevant national EPA water quality criteria values. In most cases, the EPA water quality criteria values are single sample concentrations that can be directly compared to single sample STORET entries. There are, however, two notable exceptions to this single sample/single value comparison: ammonia and fecal-indicator bacteria. For these two parameters, criteria are either derived from or depend on the results of other chemical characteristics of the water or require a time series statistical treatment of multiple samples to determine whether the criterion has been exceeded. The EPA ammonia criterion is pH and temperature dependent. To calculate the criterion for each ammonia sample value was beyond

the scope of this project. Consequently, ammonia criteria were not included in Appendix F or the EPA Water Quality Criteria Analyses. Un-ionized ammonia criteria can be determined from formula table values included in the EPA Silver Book (Environmental Protection Agency 1995).

For the purposes of this project, fecal-indicator bacteria data were flagged as exceeding criteria when their concentrations exceeded 200, 1000, 126, and 33 (fresh)/35 (salt) colony forming units or most probable number for single samples of fecal coliform, total coliform, <u>E. coli</u>, and enterococci, respectively. These values represent only approximations of the criteria for primary contact recreation waters where criteria are typically expressed in terms of a geometric mean computed with no less than 5 samples during a given month. When a fecal-indicator bacterial observation exceeds a criterion in the EPA Water Quality Criteria Analysis section, the reader should refer to the corresponding geometric mean calculations in the preceding Parameter Inventory. Long-term geometric means that exceed the respective water quality criteria for multiple samples are more indicative of chronic bacteriological problems than single sample values.

Water quality observations carrying non-detection or below-detection limit remark codes (K, T, and U) required special treatment in the EPA Water Quality Criteria Analysis. As with the statistics in the Parameter Inventory, half the detection limit was the value used in the EPA Water Quality Criteria Analysis. For certain observations, however, half the detection limit may exceed a water quality criterion. For those observations it would be inappropriate to classify them as exceeding a criterion since the actual value wasn't known. Thus, it was decided that any below detection limit or non-detect observations that exceed a water quality criterion using half the detection value would be excluded from the EPA Water Quality Criteria Analysis. If non-detect or below detection limit values are excluded from the EPA Water Quality Criteria Analysis for a particular parameter, the total observations for that parameter will be footnoted with an ampersand (&). This will also explain the difference between the total observations in the Parameter Inventory and the EPA Water Quality Criteria Analysis. Non-detect or below detection limit values are included in the EPA Water Quality Criteria Analysis, however, if half the detection limit doesn't exceed the parameter's criterion.

The EPA Water Quality Criteria Analysis for each station lists the parameter; the standard type and value; the total number of observations for the parameter at this station; the number of observations that exceeded the standard value; and the proportion of observations that exceeded the standard value. Water quality observations are considered as having exceeded a criterion regardless of whether the criterion represents a maximum acceptable value or a minimum acceptable value. The table also breaks down the water quality criteria analysis on a seasonal basis to allow the reader to discern whether parameter observations tend to exceed criteria during only certain seasons or year round. Although the EPA Water Quality Criteria Analysis table is a good starting point for assessing potential water quality problems at the station, the reader is strongly encouraged to read the caveat section in the Introduction concerning drawing conclusions about water quality problems from this table. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Time Series Plots for Station

Following the EPA Water Quality Criteria analysis will be any Time Series Plots for each parameter that met the time series plot screening criterion selected for the park unit. If a time series plot is generated for a particular parameter at a station, a "p" will appear next to the STORET parameter code in the Parameter Inventory. If no time series plots are present for the particular station, the data did not meet the time series screening criterion listed in the Overview section of the Water Quality Results chapter. The x-axis on these plots is the period of record, listing only the 2-digit calendar year for clarity (i.e. 1983 is presented as 83). The y-axis is the concentration of the selected parameter in its measurement units. In general, the units for a given parameter are given either on the y-axis or in the parameter description in the subtitle of the graph. Subtitle and/or y-axis parameter descriptions may be truncated on the plots so as to not exceed the maximum number of plotting characters. Y-axis values less than zero are sometimes shown for better representation of the entire plot. The station identification code, parameter description, and parameter STORET code are presented in the main title. The footnote provides a descriptive location name. Observations on the plot are represented as squares. Lines are drawn connecting each successive observation. As mentioned previously in the Statistical Definitions section of the Methodology chapter, the interconnecting line is drawn only for ease of reading and provides no indication of what the actual parameter

values were between the two observed measurements. Digital, reproducible copies of all time series plots accompany the report on disk (See Appendices A and B).

For time series plots of pH, the original pH values are plotted. For time series plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of a time series plot for bacteriological parameters is log-linear.

Annual Analysis for Station

If more than 9 observations exist in each of at least 4 years for a particular parameter at a station, an Annual Analysis table will be generated. Entries will be made in the table for each parameter having more than 9 observations in each of at least 4 years. The Annual Analysis presents the same descriptive statistics as the Parameter Inventory table, except that it provides the statistics by year, rather than the entire period of record. Although some of the years may not contain 9 observations, these years still have an entry in the table. A parameter needs only to have 9 observations in any 4 years of its period of record to qualify for the Annual Analysis table. Like the Parameter Inventory, percentiles with fewer than 9 observations are not computed and entries computed with greater than 50 percent of the data values set to half the detection limit are flagged. Entries in the Annual Analysis table that also meet the annual analysis box-and-whisker plot screening criterion will be flagged with a "p" next to the STORET code. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Annual Box-and-Whiskers Plots for Station

Entries in the Annual Analysis table that meet the annual box-and-whisker plot screening criterion will generate Annual Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each year of the period of record, even if less than 9 observations were recorded in the year. The axis labeling and plot titling is the same as for the time series plots. Digital, reproducible copies of these graphics accompany the report on disk (See Appendices A and B).

For annual box-and-whiskers plots of pH, μ eq/l H $^+$ are plotted. For annual box-and-whiskers plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of an annual box-and-whiskers plot for bacteriological parameters is log-linear.

Seasonal Analysis for Station

As explained above, a park's hydrologic seasons for seasonal water quality analysis were determined using a process of hydrograph separation and other techniques. If a parameter has more than 9 observations in each of 2 seasons with a period of record of at least 6 years and observations in at least 3 of the 6 years, a Seasonal Analysis table will be generated for the station. The Seasonal Analysis presents the same descriptive statistics as the Parameter Inventory table, except that it provides the statistics by season, rather than the entire period of record. Although certain parameters for a season at a station may not contain 9 observations, these parameters can still have an entry in the table. A parameter needs only to have 9 observations in each of 2 seasons with a period of record of at least 6 years and observations in at least 3 of the 6 years to qualify for the Seasonal Analysis table. Consequently, some of the parameters could have fewer than 9 observations in a particular season but still generate a table entry. Like the Parameter Inventory and Annual Analysis, percentiles with fewer than 9 observations are not computed and entries computed with greater than 50 percent of the data values set to half the detection limit are flagged. Entries in the Seasonal Analysis table that also meet the seasonal analysis box-and-whisker plot screening criterion will be flagged with a "p" next to the STORET code. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Entries in the Seasonal Analysis table that meet the seasonal box-and-whisker plot screening criterion will generate Seasonal Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each season of the period of record, even if less than 9 observations were recorded in the season. On the x-axis, the seasons are labeled 1 through the number of seasons defined for the park through hydrograph separation. The actual calendar dates that correspond to these numerically labeled seasons exist in the Overview section and the Seasonal Analysis tables in the Water Quality Results chapter. The axis labeling and plot titling are the same as for the time series and annual box-and-whiskers plots. Digital, reproducible copies of these graphics accompany the report on disk (See Appendices A and B).

For seasonal box-and-whiskers plots of pH, μ eq/l H⁺ are plotted. For seasonal box-and-whiskers plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of a seasonal box-and-whiskers plot for bacteriological parameters is log-linear.

EPA Water Quality Criteria Analysis for Entire Park Study Area

This table essentially summarizes all the individual station-by-station EPA water quality criteria analyses in the study area. (Refer to the EPA Water Quality Criteria Analysis for Station section above for more detailed information on the treatment of special cases in the EPA Water Quality Criteria Analysis for Entire Park Study Area.) This table presents a comparison between the study area's STORET water quality data and applicable national water quality criteria for freshwater and marine aquatic organisms; drinking water; and other concerns. Comparison against applicable State water quality criteria was not feasible given project resources. Appendix F provides the relevant national EPA water quality criteria values. The EPA Water Quality Criteria Analysis for the Entire Park Study Area lists the parameter; the standard type and value; the total number of observations for the parameter at this station; the number of observations that exceeded the standard value; and the proportion of observations that exceeded the standard value. Water quality observations are considered as having exceeded a criterion regardless of whether the criterion represents a maximum acceptable value or a minimum acceptable value. The table also breaks down the water quality criteria analysis on a seasonal basis to allow the reader to discern whether parameter observations tend to exceed criteria during only certain seasons or year round. Although the EPA Water Quality Criteria Analysis for the Entire Park Study Area is a good starting point for assessing potential water quality problems at the park, the reader is strongly encouraged to read the caveat section in the Introduction before drawing conclusions about water quality problems from this table. A digital, reproducible copy of this table accompanies the report on disk (See Appendices A and B).

NPS Servicewide Inventory and Monitoring Program Level I Water Quality Inventory Data Evaluation and Analysis (IDEA)

One of the objectives of this Baseline Water Quality Data Inventory and Analysis project is to perform an IDEA - an Inventory Data Evaluation and Analysis - to determine the presence and/or absence of Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups in the park's study area. The Strategic Plan for Conducting Baseline Natural Resource Inventories in the National Park Service (National Park Service 1993) identified the basic water quality parameters displayed in Table I as the parameters that all parks must have for "key" waterbodies (determined on the basis of size, uniqueness, threats, etc.) within park boundaries. Since these parameters can be measured in different ways and with different units, there are multiple STORET codes associated with each parameter; hence the concept of parameter groups. The Strategic Plan distinguishes between those parameter groups required for all parks and parameter groups required only on a case-by-case basis.

The IDEA basically compares the parameters listed in the Parameter Period of Record Tabulation and Station/Parameter Period of Record Tabulation with the "Level I" Servicewide Inventory and Monitoring water quality parameter groups, listed in Table I and in Appendix G, and notes, not only the presence or absence of each parameter group, but the total number of observations for each parameter present in the group; the number of

observations between certain time periods; and the total number of stations within the study area at which the parameter was measured. The total number of different (unique) stations measuring parameters for the group is in parentheses on each parameter group's summary line.

The first page of the IDEA lists the missing Servicewide Inventory and Monitoring Program "Level I" groups. If a parameter group appears on this list, no data for any of the parameters defining the group (See Appendix G) was retrieved for it within the study area. So-called non-priority parameter groups may appear in the missing list. Non-priority parameters are park-specific parameters (case-by-case) which may not be applicable to your park. Consequently, if you believe a particular parameter, not included in IDEA (See Appendix G), to be important for your park, you will have to consult the Parameter and Station/Parameter Period of Record Tabulations to determine the presence or absence of this parameter for the park. Although considered a "Level I" parameter, biological data, obtained through rapid bioassessment or other means, is not considered in this report which deals specifically with surface water chemistry. Following the Missing Level I Group list is the Present Level I Group list which displays the summary results for each Servicewide Inventory and Monitoring "Level I" water quality parameter group that was found.

Table I. Basic "Level I" Water Quality Parameters Identified as Required and Optional By the Servicewide Inventory and Monitoring Program for "Key" Park Waterbodies

Required Parameter Groups:

- (1) Alkalinity
- (2) pH
- (3) Conductivity
- (4) Dissolved Oxygen
- (5) Rapid Bioassessment Baseline (EPA/State protocols, involving fish and macroinvertebrates)
- (6) Temperature
- (7) Flow

Case-By-Case Parameters Groups:

- (8) Toxic Elements
- (9) Clarity/Turbidity
- (10) Nitrate/Nitrogen
- (11) Phosphate/Phosphorus
- (12) Chlorophyll
- (13) Sulfates
- (14) Bacteria

The last page of the IDEA summarizes the information from the Missing and Present Level I Group lists. This page provides information on the temporal and spatial distributions of the data. Included in this table are the total number of observations for each parameter group; the number of observations since January 1, 1985; the percent of the total observations since January 1, 1985; the number of stations measuring each parameter group; the percent of the total number of stations with data measuring the parameter group; the number of observations per station with data; the period-of-record for this parameter group; and the average number of observations per year of the period-of-record.

In interpreting the results of the IDEA, the reader should first consult the Missing Level I Group list. For the parameter groups listed, there was no baseline water quality data within the study area entered in STORET. Consequently, these parameter groups could be a higher priority for data collection. It is important, however, to realize that data within these parameter groups may have been already collected but not entered into STORET. The resources for this project did not enable us to pursue thorough literature and file cabinet reviews to dredge up

every last iota of data. If data exists for certain Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups in a park's file cabinet, it is the park's responsibility to factor that data into their IDEA. Consequently, the listing of a parameter group on the Missing "Level I" Group list is not a WRD endorsement to launch a study to collect these data. The IDEA is intended to simply note that no data exist for these parameter groups in STORET for the park. It is the park's responsibility to ascertain whether such data has already been collected by the park or other entities before embarking on a new study. In fact, in the future the WRD will require that any park study plan proposing to collect baseline water quality data show that they have consulted their Baseline Water Quality Data Inventory and Analysis report and searched in other locations (file cabinets, published literature, etc.) for the data they propose to collect. A similar interpretation springs from the Present "Level I" Group list. Insufficient data density in certain time periods for particular parameter groups is not necessarily cause for launching a new inventory and/or monitoring program. The park should still consult with other potential sources of data. Again, the IDEA is designed to provide only a quick check on data in STORET for the Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups.

Water Quality Observations Outside STORET Edit Criteria for Park

STORET data entered after November 1983 were subjected to rudimentary edit/bounds checking for 190 common parameters (See the STORET Edit Criteria in Appendix C). None of the data entered into STORET prior to that time has been subjected to edit/bounds checking. Moreover, to maintain exact comparability with USGS WATSTORE data, WATSTORE data entered into STORET has never been subjected to the EPA edit/bounds checking. During the pilot test phase of this project, obviously incorrect data was identified from both USGS and other agency data in STORET. As a consequence, all data downloaded from STORET was filtered through the STORET edit criteria to identify parameter observation values that fall outside any edit criterion ranges. This section documents the station name, parameter, date, time, parameter value, agency, and STORET station name of every observation that fell outside the range of an edit criterion. Not all data falling outside an edit criterion are necessarily incorrect. Such data may represent unique or special conditions. Consequently, every observation falling outside a STORET edit criterion was scrutinized to determine, in our best professional judgement, whether the value was in the realm of possibility or obviously incorrect. Water quality observations that appeared to be obviously incorrect are marked with an "X" in the Disposition column of this table. These values were not retrieved or included in any of the inventory tables or graphs. Water quality values outside a STORET edit criterion but within the realm of possibility were retained and included in inventory tables and graphs. The Water Quality Observations Outside STORET Edit Criteria for Park table documents all values that were outside an edit criterion range. This documentation is also necessitated by the fact that agencies can override the STORET edit criteria for individual observations. Although the edit criteria eliminate some potentially "bad" data from the report, the probability of other incorrect data, for both the 190 parameters that are edit/bound checked and all the other STORET parameters that aren't error checked, is high. Readers should consult the Caveat section in the Introduction for guidelines on the use and interpretation of STORET data. The responsibility for correcting these observations rests with the collecting agency.

WATER QUALITY RESULTS

OVERVIEW FOR COLM

Study Area Boundary Description

The study area includes the park and all areas within at least 3 miles upstream of the park unit boundary and at least 1 mile downstream.

	Study Area	<u>Park</u>
GIS Estimated Acreage:	78250	20420
# STORET Stations:	46	0
# Stations With No Data:	13	0
# Stations With No Stat. Analysis:	0	0
# Longer Term Stations:	5	0
Date of STORET Retrieval:	10/16/98	10/16/98
Period of Record:	01/01/01-03/10/97	No Data in Park
# Parameters Measured:	143	0
# Water Quality Observations:	7401	0
# Industrial/Municipal Facilities:	6	0
# Drinking Water Intakes:	0	0
# Water Gages:	4	0
# Water Impoundments:	4	0
# Total Plots:	78	0
# Time Series: # Annual: # Seasonal:	51 3 24	0 0 0

Hydrologic Definition of Seasons:

- July 15 October 19
 October 20 January 14
 January 15 May 31
 June 1 July 14

<u>Time Series Plot Criteria:</u>

To be included in the time series plots, a station/parameter combination must have at least 10 years and at least 40 observations.

Annual Analysis Criteria:

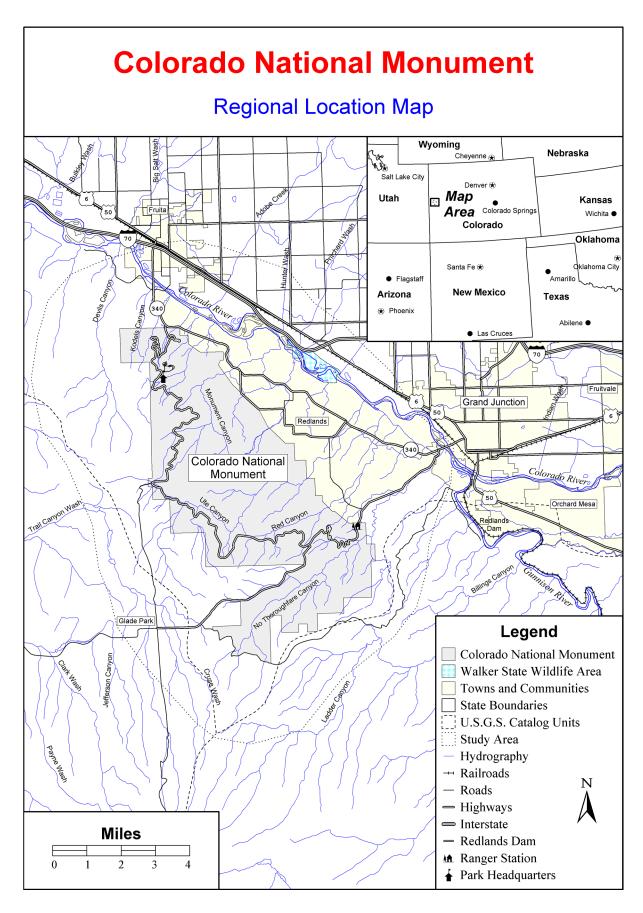
To be included in the annual box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of at least 4 years.

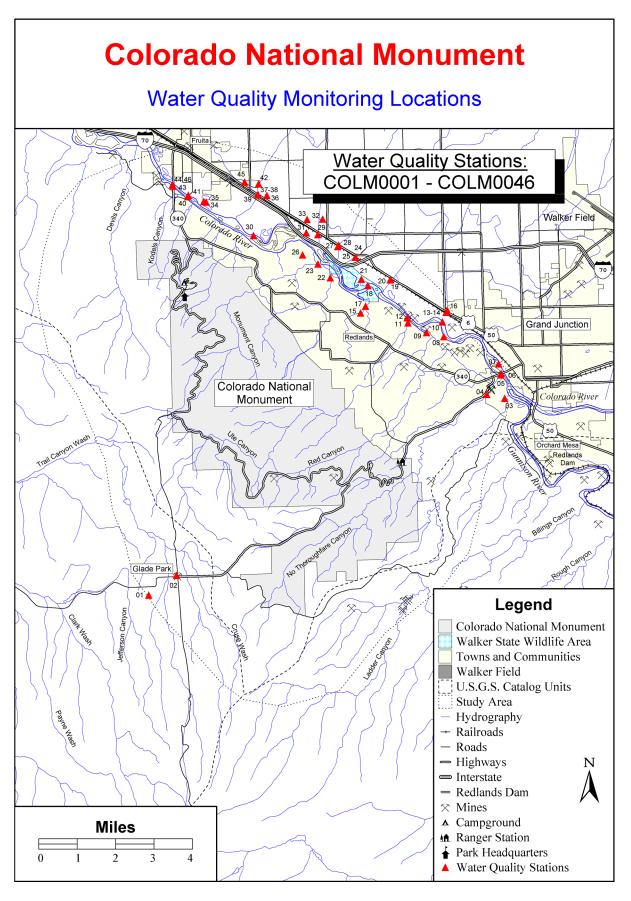
To be included in the annual analysis tables, a station/parameter combination must have at least 9 observations in each of at least 4 years.

Seasonal Analysis Criteria:

To be included in the seasonal box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 12 years and observations in at least 4 of the 12 years.

To be included in the seasonal analysis tables, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years.





Colorado National Monument Dischargers, Drinking Intakes, Water Gages, & Water Impoundments **Thematic Legend** Industrial Discharger Drinking Water Intake Water Gage Water Impoundment USNWSU Field Colorado River Grand Junction Colorado National Colorado River C001405 Monument Orchard Mesa CO00318 Glade Park Legend efferson Canyon Colorado National Monument Walker State Wildlife Area Towns and Communities Walker Field U.S.G.S. Catalog Units Study Area Hydrography + Railroads Roads Highways Interstate — Redlands Dam ☆ Mines Miles ▲ Campground Ranger Station

Industrial Facility Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Within the COLM Study Area

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name	
CO0022713	PANORAMA IMPROVEMENT DISTRICT	P O BOX 2554	GRAND JUNCTION	SLOUGH TRIB TO COLORADO RIVER	
CO0033944	GRAND JUNCTION CITY OF (GOAT WA	KANSAS & GREENBELT DR	GRAND JUNCTION	GOAT WA	
CO0034193	FIBREBOARD CORPORATION	PABCO INSULATION DIVISION	FRUITA	BIG SALT WASH TO COLORADO RIVE	
CO0038768	ELAM CONSTRUCTION 19 ROAD PIT	1225 SOUTH 7TH STREET	FRUITA	COLO RIVER	
CO0038822	KIEWIT WESTERN CO	916 18 ROAD	FRUITA	COLORADO RIVER	
CO0040053	GRAND JUNCTION, CITY PERSIGO	250 NORTH FIFTH STREET	GRAND JUNCTION	PERSIGO WASH	

Drinking Water Intakes

Avg. Daily Production
Site ID Station/Facility Name City Population Served (Gal./Day)

No drinking water intakes available for this study area.

Water Gages

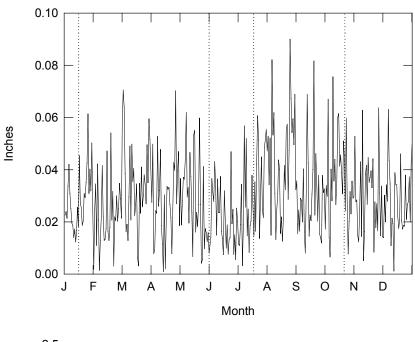
			Drainage Area		
Site ID	Station Name	Site Type	(Square Miles)	Begin Year	End Year
USGS09152650	LEACH CREEK AT DURHAM, CO.	Stream	24.80	1973	1984
USGS09152900	ADOBE CREEK NEAR FRUITA, CO.	Stream	15.40	1973	1984
USNWS05 3148 N	FRUITA COLO ON COLOR	Stream			
USGS09153000	COLORADO RIVER NEAR FRUITA, CO.	Stream	17100.0	1911	1923

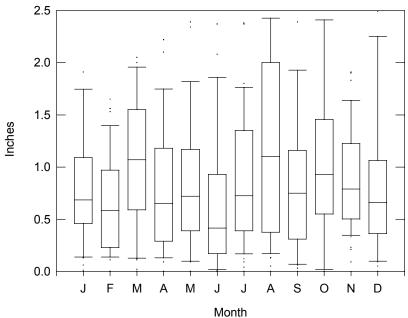
Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
CO00318	THOMPSON #1	KENNETH THOMPSON	Irrig.	Earth	Low	1953
CO00322	THOMPSON #2	KENNETH THOMPSON	Irrig.	Earth	Low	1953
CO00954	FRUITA SETTLING BASIN #2	TOWN OF FRUITA	Supply	Earth	Low	1957
CO01405	GARDNER LAKE	UNKNOWN	Irrig.	Earth	Significant	1980

REPRESENTATIVE PRECIPITATION PLOTS FOR SEASONAL ANALYSIS

COLORADO NATIONAL MONUMENT Colorado National Monument 1772, 43 year record





Plot of average daily precipitation (top) and distribution of total monthly precipitation (bottom) for hydrologic season determination. Box and whiskers represent a five number summary; bottom whisker cap is 10th percentile, bottom of box is 25th percentile, internal line is median, top of box is 75th percentile, and top whisker is 90th percentile. Hydrologic seasons for Colorado National Monument are: Jul. 15 to Oct. 19, Oct. 20 to Jan. 14, Jan. 15 to May 31, and Jun. 1 to Jul. 14.

CONTACTS FOR AGENCY CODES RETRIEVED FOR COLM

<u>AGENCY</u>	PRIMARY CONTACT NAME	<u>ORGANIZATION</u>	PHONE NUMBER	<u>k(S)</u>
112WRD	BRIGGS, JOHN	US GEOLOGICAL SURVEY	(703)648-5624	
11USBRUC	TUCKER, BILL	BUREAU OF RECLAMATION	(303)247-0247	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518
21COL001	ANDERSON DENNIS	COLORADO DEPT OF HEALTH	(303)692-3571	

QUANTITY OF DATA RETRIEVED FOR COLM BY AGENCY CODE

WITHIN THE ENTIRE STUDY AREA (S.A.) AND JUST WITHIN THE PARK

				Water	Quality	Longer	Term!	No D	ata	Water (Quality	Water	Quality
		Period	of Record	Stat	ions	Stat	ions	Statio	ons	Observ	ations	Parar	neters
Agency	Organization	Study Area	/ Park Only	S.A.	/ Park	S.A.	Park	S.A. /	Park	S.A. /	Park	S.A.	/ Park
112WRD	US GEOLOGICAL SURVEY	10/15/70-03/10/97	No Data in Park	29	0	4	0	0	0	5395	0	101	0
11USBRUC	BUREAU OF RECLAMATION	No Data in S.A.	No Data in Park	13	0	0	0	13	0	0	0	0	0
11NPSWRD	NATIONAL PARK SERVICE	08/13/77-08/18/77	No Data in Park	3	0	0	0	0	0	12	0	4	0
21COL001	COLORADO DEPT OF HEALTH	01/01/01-12/04/78	No Data in Park	1	0	1	0	0	0	1994	0	54	0
Totals		01/01/01-03/10/97	No Data in Park	46	0	5	0	13	0	7401	0	143	0

'Station With At Least 6 Parameters Having An Average of 1 Or More Observations Per Year During a Period of Record Extending At Least 2 Years.

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75
COLM0001	047 HUDSON	No	26	03/10/27	26	0
COLM0001	045 FULLER	No	26	0	26	0
COLM0002	UC00100122BAA1	No	27	0	27	0
COLM0003	UC00100122BBD1	No	29	0	29	0
COLM0004 COLM0005	COLORADO RIVER BELOW GUNNISON RIVER	No	107	0	107	0
COLM0005	COLO RIVER AT GRAND AVE. BRIDGE AT GRAND JUNC CO	No	0	0	0	0
COLM0007	WEST FILTRATION PLANT	No	110	0	110	0
COLM0007 COLM0008	COLORADO RIVER ABOVE REDLANDS CANAL	No	118	0	118	0
COLM0008	REDLANDS POWER CANAL	No	110	0	110	0
COLM0010	POND WEST OF LEACH CREEK, BLUE HERON TRAIL	No	37	37	0	0
COLM0010	DRAIN ALONG REDLANDS PARKWAY, AT MOUTH	No	127	127	0	0
COLM0011	COLORADO R. AT REDLANDS PARKWAY NR GRAND JCT., C	No	244	244	0	0
COLM0012 COLM0013	LEACH CREEK AT DURHAM, CO.	No	1610	628	804	178
COLM0013	LEACH CREAT DURHAM, CO.	No	0	028	0	0
COLM0014 COLM0015	LIMEKILN GULCH NEAR MOUTH	No	21	21	0	0
COLM0013 COLM0016	INDEPENDENT RANCHMENS DITCH ABOVE LEACH CREEK	No	24	24	0	0
COLM0016 COLM0017	LIMEKILN GULCH AT MOUTH NR GRAND JUNCTION CO.	No	0	0	0	0
COLM0017 COLM0018	COLORADO RIVER BELOW REDLANDS CANAL			0		0
COLM0018		No No	110 0	0	110	0
COLM0019 COLM0020	APPLETON DRAIN NR MOUTH GRAND JUNCTION, CO. APPLETON DRAIN AT RIVER ROAD	No No	99	99	0	0
COLM0020 COLM0021	NORTH POND AT WALTER WALKER SWA	No	33	33	0	0
COLM0021 COLM0022	125006	No		0	*	-
			4		4	0
COLM0023	039 SLASSON SPRING	No	56	0	56	0
COLM0024	PERSIGO WASH NR MOUTH NR GRAND JUNCTION, COLO	No	0	0	0	0
COLM0025!	PERSIGO WASH AT RIVER ROAD	No	185	185	0	0
COLM0026	125005	No	4	0	4	0
COLM0027	PRITCHARD WASH AT RIVER ROAD	No	102	102	0	0
COLM0028	PRITCHARD WASH NR MOUTH NR GRAND JUNCTION, COLO.	No	0	0	0	0
COLM0029!	HUNTER WASH AT RIVER ROAD	No	192	192	0	0
COLM0030	BACKWATER SITE AT FORRESTERS, EAST OF 19 ROAD	No	43	43	0	0
COLM0031	HUNTER WASH NEAR MOUTH NEAR FRUITA, COLORADO	No	0	0	0	0
COLM0032	INFLOW INDEP RANCHMENS DITCH AND HUNTER WASH	No	0	0	0	0
COLM0033	OUTFLOW INDEP RANCHMANS DITCH AND HUNTER WASH	No	0	0	0	0
COLM0034	DRAINAGE PIPE DISCHARGE INTO S.POND AT SMITHS	No	7	7	0	0
COLM0035	SOUTH POND AT P.SMITH PROPERTY, NR 18 ROAD	No	45	45	0	0
COLM0036	INFLOW INDEP RANCHMANS DITCH AND ADOBE WASH	No	0	0	0	0
COLM0037	ADOBE CREEK AT HIGHWAY 6&50	No	28	0	28	0
COLM0038	ADOBE CREEK AT USGS GAGE NR MOUTH NR FRUITA, CO.	No	0	0	0	0
COLM0039!	ADOBE CREEK NEAR FRUITA, CO.	No	1458	167	1110	181
COLM0040	COLO RIVER AT OLD NATL. MONUMENT BRIDGE, FRUITA	No	0	0	0	0
COLM0041	COLORADO RIVER NEAR FRUITA, CO.	No	249	239	0	10
COLM0042	<u>125102</u>	No	4	0	. 4	0
COLM0043	COLORADO RIVER AT FRUITA	No	108	0	108	0
COLM0044	COLORADO RIVER NEAR FRUITA COLO.	No	64	36	28	0
COLM0045	OUTFLOW INDEP RANCHMANS DITCH AND ADOBE WASH	No	0	0	0	0
COLM0046!	COLORADO RIVER NEAR FRUITA	No	1994	0	704	1290

¹Longer Term Station With At Least 6 Parameters Having An Average of 1 Or More Observations Per Year During a Period of Record Extending At Least 2 Years.

Parameter Code	Name	Total Obs	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Statio Total	ns Park
00004	STREAM WIDTH (FEET)	73	73	0	0	11	0
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	333	109	198	26	32	0
00011 00025	TEMPERATURE, WATER (DEGREES FAHRENHEIT) BAROMETRIC PRESSURE (MM OF HG)	73 46	0 46	21	52 0	1 14	0
00023	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	150	112	38	0	19	0
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	159	112	47	ŏ	18	ŏ
00041	WEATHER (WMO CODE 4501)	46	0	40	6	2	0
00042 00060	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	1 12	0	0 1	1 11	1 3	0
00061	FLOW, STREAM, MEAN DAILY CFS FLOW, STREAM, INSTANTANEOUS CFS	158	95	61	2	15	0
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	80	80	0	0	14	Ō
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	60	0	21	39	1	0
00095 00300	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) OXYGEN, DISSOLVED MG/L	387 189	108 45	214 128	65 16	33 21	0
00310	BOD, 5 DAY, 20 DEG C MG/L	41	0	20	21	1	ő
00335	COD, .025N K2CR2O7 MG/L	1	0	0	1	1	0
00400	PH (STANDARD UNITS)	289	93	140	56	33 12	0
00403 00405	PH, LAB, STANDARD UNITS SU CARBON DIOXIDE (MG/L AS CO2)	84 69	84 0	0 57	0 12	9	0
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	78	ŏ	66	12	10	ŏ
00440	BICARBONATE ION (MG/L AS HCO3)	69	0	57	12	9	0
00445 00500	CARBONATE ION (MG/L AS CO3)	67 7	0	57 4	10	9 1	0
00505	RESIDUE, TOTAL (MG/L) RESIDUE, TOTAL VOLATILE (MG/L)	14	0	0	14	1	0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	42	Ö	21	21	1	ŏ
00545	RESIDUE, SETTLEABLE (ML/L)	15	0	0	15	1	0
00600 00605	NITROGEN, TOTAL (MG/L AS N)	55 55	0	55 55	0	6 6	$0 \\ 0$
00608	NITROGEN, ORGANIC, TOTAL (MG/L AS N) NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	14	14	0	0	7	0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	109	0	74	35	7	0
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	9	9	0	0	7	0
00615 00620	NITRITE NITROGEN, TOTAL (MG/L AS N)	51 57	$0 \\ 0$	20 21	31 36	1 1	$0 \\ 0$
00625	NITRATE NITROGEN, TOTAL (MG/L AS N) NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	55	0	55	0	6	0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	55	Ŏ	55	ŏ	6	ŏ
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	113	37	64	12	16	0
00650 00660	PHOSPHATE, TOTAL (MG/L AS PO4) PHOSPHATE, ORTHO (MG/L AS PO4)	32 70	$0 \\ 0$	0 58	32 12	1 9	$0 \\ 0$
00665	PHOSPHORUS, TOTAL (MG/L AS P)	72	0	69	3	ź	ő
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10	0	10	0	3	0
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	84	14	58	12	14	0
00681 00723	CARBON, DISSOLVED ORGANIC (MG/L AS C) CYANIDE, DISSOLVED STD METHOD (UG/L)	1 41	1 0	0 16	0 25	1 1	0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	137	ő	85	52	10	ŏ
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	76	0	64	12	9	0
00910 00915	CALCIUM (MG/L AS CACO3) CALCIUM, DISSOLVED (MG/L AS CA)	58 157	0 81	20 64	38 12	1 19	$0 \\ 0$
00913	MAGNESIUM, DISSOLVED (MG/L AS CA)	157	81	64	12	19	0
00927	MAGNESIUM, TOTAL (MG/L AS MG)	58	0	20	38	1	ŏ
00929	SODIUM, TOTAL (MG/L AS NA)	61	0	20	41	1	0
00930 00931	SODIUM, DISSOLVED (MG/L AS NA) SODIUM ADSORPTION RATIO	157 136	81 0	64 84	12 52	19 10	0
00932	SODIUM, PERCENT	76	0	64	12	9	ő
00933	SODIUM,PLUS POTASSIUM (MG/L)	4	0	4	0	1	0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	157	81	64	12	19	0
00937 00940	POTASSIUM, TOTAL MG/L AS K) CHLORIDE, TOTAL IN WATER MG/L	1 218	0 81	1 85	0 52	1 20	$0 \\ 0$
00945	SULFATE, TOTAL (MG/L AS SO4)	210	82	84	44	20	ŏ
00950	FLUORIDÉ, DISSOLVED (MG/L ÁS F)	156	81	63	12	19	0
00951 00955	FLUORIDE, TOTAL (MG/L AS F) SILICA, DISSOLVED (MG/L AS SI02)	42 156	0 81	15 64	27 11	1 19	0
00933	IRON, TOTAL RECOVERABLE IN WATER AS FE UG/L	59	0	20	39	19	0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	15	14	0	1	8	ŏ
01002	ARSENIC, TOTAL (UG/L AS AS)	42	0	17	25	1	0
01020 01022	BORON, DISSOLVED (UG/L AS B) BORON, TOTAL (UG/L AS B)	30 44	30	0 16	$\begin{array}{c} 0 \\ 28 \end{array}$	9 1	0
01022	CADMIUM, DISSOLVED (UG/L AS CD)	15	14	0	1	8	0
01030	CHROMIUM, DISSOLVED (UG/L AS CŔ)	14	14	0	0	7	0
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	33	0	8	25	2	0
01034 01035	CHROMIUM, TOTAL (UG/L AS CR) COBALT, DISSOLVED (UG/L AS CO)	1 1	0	0	1 1	1 1	0
01033	(OO/L/10 CO)	1	J	U	1	1	U

Parameter Code		Total Obs	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Statio Total	ons Park
01040	Name COPPER, DISSOLVED (UG/L AS CU)	14	14	0	0	7	0
01046	IRON, DISSOLVED (UG/L AS FE)	75	0	64	11	9	0
01049	LEAD, DISSOLVED (UG/L AS PB)	15	14	0	1	8	0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	76 14	0	64	12	9 7	0
01060 01074	MOLYBDENUM, DISSOLVED (UG/L AS MO) NICKEL,TOTAL RECOVERABLE IN WATER AS NI UG/L	14	14 0	0 1	0	1	0
01074	SILVER, TOTAL RECOVERABLE IN WATER AS AT UG/L	18	0	8	10	1	0
01085	VANADIUM, DISSOLVED (UG/L AS V)	14	14	0	0	7	Ö
01090	ZINC, DISSOLVED (UG/L AS ZN)	15	14	0	1	8	0
01094	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	55	0	18	37	1	0
01104 01113	ALUMINUM,TOTAL RECOVERABLE IN WATER AS AL UG/L CADMIUM,TOTAL RECOVERABLE IN WATER AS CD UG/L	1 43	0	1 16	$\begin{array}{c} 0 \\ 27 \end{array}$	1	$0 \\ 0$
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB UG/L	43	ő	18	25	i	ŏ
01118	CHROMIUM TOTAL RECOVERABLE IN WATER AS CR UG/L	7	0	7	0	1	0
01119	COPPER, TOTAL RECOVERABLE IN WATER AS CU UG/L	45	0	20	25	1	0
01123 01129	MANGANESE,TOTAL RECOVERABLE IN WATER AS MN UG/L MOLYBDENUM,TOTAL RECOVERABLE IN WATER AS MB UG/L	57 21	0	19 12	38 9	1 1	$0 \\ 0$
01145	SELENIUM, DISSOLVED (UG/L AS SE)	51	51	0	0	12	0
01147	SELENIUM, TOTAL (UG/L AS SE)	55	7	9	39	6	Ō
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	11	11	0	0	5	0
01330	ODOR, ATMOSPHERIC (SEVERITY)	40 36	0	40 13	0 23	2	$0 \\ 0$
01503 01504	ALPHA, DISSOLVED ALPHA, DISSOLVED, COUNTING ERROR	36	0	13	23	1	0
03501	BETA, TOTAL	1	ő	1	0	1	ő
03503	BETA, DISSOLVED	15	0	7	8	1	0
03504	BETA, DISSOLVED, COUNTING ERROR	15	0	7	8	1	0
09503 09504	RADIUM 226, DISSOLVED RADIUM 226, DISSOLVED, COUNTING ERROR	7 7	0	0	7 7	1 1	0
22703	URANIUM, NATURAL, DISSOLVED	3	0	3	0	3	0
28011	URANIUM, NATURAL, TOTAL UG/L AS U	14	14	0	ő	7	ő
30282	METHIOCÁRB, WATÉR, WHOLE, RECOVERABLE, UG/L	5	5	0	0	5	0
30296	PROPOXUR, WATER, WHOLE, RECOVERABLE, UG/L	5	5	0	0	5	0
31505 31615	COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506)	69 68	0	19 20	50 48	1 1	$0 \\ 0$
38260	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614) METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	35	0	15	20	1	0
38932	CHLORPYRIFOS, TOTAL RECOVERABLE UG/L	5	5	0	0	5	Ō
39011	DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UG/L)	5	5	0	0	5	0
39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	5 5	5 5	0	0	5	0
39040 39051	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L METHOMYL IN WHOLE WATER (UG/L)	5	5	0	0	5 5	$0 \\ 0$
39052	PROPHAM IN WHOLE WATER (UG/L)	1	1	ő	ŏ	ĭ	ŏ
39398	ETHION IN WHOLE WATER SAMPLÉ (UG/L)	5	5	0	0	5	0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	5	5	0	0	5	0
39540 39560	PARATHION IN WHOLE WATER SAMPLE (UG/L) DEMETON IN WHOLE WATER SAMPLE (UG/L)	4 5	4 5	0	0	4 5	$0 \\ 0$
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	5	5	0	0	5	0
39580	GUTHION IN WHOLE WATER SAMPLE (UG/L)	5 5 5 5	5	0	Õ	5	Ö
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	5	5 5	0	0	5	0
39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	5	5	0	0	5	0
39786 39790	TRITHION IN WHOLE WATER SAMPLE (UG/L) METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	5 5	5 5	0	0	5 5	$0 \\ 0$
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	96	33	21	42	10	ŏ
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	75	0	64	11	9	0
70302	SOLIDS, DISSOLVED-TONS PER DAY	69	0	58	11	4	0
70303 70507	SOLIDS, DISSOLVED-TONS PER ACRE-FT PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	76 55	0	64 55	12 0	9 6	$0 \\ 0$
71887	NITROGEN, TOTAL, AS NO3 - MG/L	55	0	55	0	6	0
71890	MERCURY, DISSOLVED (UG/L AS HG)	14	14	0	ŏ	7	ŏ
71900	MERCURY, TOTAL (UG/L AS HG)	1	0	0	1	1	0
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	14	14	0	0	7	$0 \\ 0$
77441 82088	1-NAPHTHOL WHOLE WATER,UG/L TERBUFOS (COUNTER) TOTAL WHOLE WATER,UG/L	5 5	5 5	0	0	5 5	0
82398	SAMPLING METHOD (CODES)	102	102	ŏ	ŏ	17	ő
82584	3-HYDROXY CARBOFURAN, WATER, TOTAL RECOVERABLE, UG/L	5	5	0	0	5	0
82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE UG/L	5	5	0	0	5	0
82587 82613	ALDICARB SULFONE, WH WATER, TOTAL RECOVERABLE,UG/L OXYAMYL, WHOLE WATER, TOTAL RECOVERABLE UG/L	5 5	5 5	0	0	5 5	$0 \\ 0$
82614	DYFONATE (FONOFOS), WATER, TOTAL RECOVERABLE, UG/L	5	5	0	0	5	0
82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE UG/L	5	5	ő	ŏ	5	ŏ
82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE UG/L	5	5	0	0	.5	0
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	20	15	5	0	14	0
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	20	15	5	0	14	0

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLM0011	No	00004	STREAM WIDTH (FEET)	08/30/91-02/06/92	0	2	11015
COLM0012	No	00004	STREAM WIDTH (FEET)	07/20/94-09/08/95	1	10	
COLM0013	No	00004	STREAM WIDTH (FEET)	08/30/91-03/10/97	5	30	
COLM0015	No	00004	STREAM WIDTH (FEET)	02/06/92-02/06/92	0	1	
COLM0016	No	00004	STREAM WIDTH (FEET)	02/06/92-02/06/92	0	1	
COLM0020	No	00004	STREAM WIDTH (FEET)	08/28/91-02/06/92	0	2 5 2 5	
COLM0025	No	00004	STREAM WIDTH (FEET)	08/28/91-09/22/93	2	2	
COLM0027 COLM0029	No No	00004 00004	STREAM WIDTH (FEET) STREAM WIDTH (FEET)	08/28/91-02/03/92 08/28/91-09/22/93	2	5	
COLM0029 COLM0039	No	00004	STREAM WIDTH (FEET)	08/28/91-09/22/93	$\frac{2}{2}$	6	
COLM0033	No	00004	STREAM WIDTH (FEET)	10/03/94-09/08/95	0	9	
COLM0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/77-08/31/77	ŏ	ĺ	
COLM0002	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/77-08/31/77	0	1	
COLM0003	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/16/77-08/16/77	0	1	
COLM0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/15/77-08/15/77	0	1	
COLM0005	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/09/76-11/10/76	0	9 9	
COLM0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/09/76-11/10/76	0	9	
COLM0008	No	00010 00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/09/76-11/10/76	0	9	
COLM0009 COLM0010	No No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE) TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/09/76-11/10/76 03/14/95-08/08/95	0	4	
COLM0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/91-02/06/92	0	4	
COLM0011	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/20/94-09/08/95	1	13	
COLM0013	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	23	115	
COLM0015	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/06/92-02/06/92	0	1	
COLM0016	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/06/92-02/06/92	0	1	
COLM0018	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/09/76-11/11/76	0	9	
COLM0020	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/91-02/06/92	0	4	
COLM0021	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/95-08/08/95	0	2 1	
COLM0022	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/77-08/13/77	0		
COLM0023 COLM0025	No No	00010 00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/16/77-09/20/77	0 2	2 7	
COLM0025 COLM0026	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE) TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/91-09/22/93 08/13/77-08/13/77	0	1	
COLM0020 COLM0027	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/91-02/03/92	0	4	
COLM0027	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/20/91-09/22/93	2	7	
COLM0030	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/14/95-03/12/96	0	4	
COLM0034	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/13/95-03/13/95	0	1	
COLM0035	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/13/95-03/12/96	0	4	
COLM0037	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/29/78-11/29/78	0	1	
COLM0039	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/03/73-09/22/93	20	83	
COLM0041	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/70-09/08/95	24	13	
COLM0042	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/18/77-08/18/77	0	1 9	
COLM0043 COLM0044	No No	00010 00010	TEMPERATURE, WATER (DEGREES CENTIGRADE) TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/10/76-11/11/76 11/30/78-08/15/91	12	2	
COLM0044 COLM0046	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/09/68-12/04/78	10	73	T,A
COLM0010	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/14/95-08/08/95	0	3	1,71
COLM0011	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/21/91-02/06/92	Õ	3	
COLM0013	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/21/91-08/10/92	1	11	
COLM0015	No	00025	BAROMETRIC PRESSURE (MM OF HG)	02/06/92-02/06/92	0	1	
COLM0016	No	00025	BAROMETRIC PRESSURE (MM OF HG)	02/06/92-02/06/92	0	1	
COLM0020	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/21/91-02/06/92	0	3 2 3	
COLM0021	No	00025 00025	BAROMETRIC PRESSURE (MM OF HG)	06/12/95-08/08/95	0	2	
COLM0025 COLM0027	No No	00025	BAROMETRIC PRESSURE (MM OF HG) BAROMETRIC PRESSURE (MM OF HG)	03/21/91-02/03/92 03/21/91-02/03/92	0	3	
COLM0027	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/20/91-02/03/92	0	3	
COLM0030	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/14/95-03/12/96	0	4	
COLM0035	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/13/95-03/12/96	ŏ	4	
COLM0039	No	00025	BAROMETRIC PRESSURE (MM OF HG)	03/20/91-03/24/92	1	4	
COLM0044	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/15/91-08/15/91	0	1	
COLM0003	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/16/77-08/16/77	0	1	
COLM0004	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/15/77-08/15/77	0	1	
COLM0010	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/14/95-08/08/95	0	4	
COLM0011	No No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/21/91-02/06/92	0	4	
COLM0012 COLM0013	No No	$00027 \\ 00027$	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/20/94-09/08/95 11/03/75-03/10/97	1 21	14 50	
COLM0015	No No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND. CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	02/06/92-02/06/92	0	30 1	
COLM0013	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	02/06/92-02/06/92	0	1	
COLM0020	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/21/91-02/06/92	ŏ	4	
COLM0021	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/12/95-08/08/95	Ō	2	
COLM0025	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/21/91-09/22/93	2	7	
COLM0027	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/21/91-02/03/92	0	4	
COLM0029	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/20/91-09/22/93	2	7	
COLM0030	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/14/95-03/12/96	0	4	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Dorle	Codo	Nama	Start End	Vaora	Oha	Dlata!
Station COLM0034	In Park No	Code 00027	Name CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	Start - End 03/13/95-03/13/95	Years 0	Obs 1	Plots!
COLM0034 COLM0035	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE AFFEND.	03/13/95-03/12/96	0	4	
COLM0033	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE AFFEND.	10/01/81-09/22/93	11	26	
COLM0039 COLM0041	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE AFFEND. CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/20/94-09/08/95	1	14	
					0		
COLM0044	No	00027 00028	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/15/91-08/15/91 03/14/95-08/08/95	0	1	
COLM0010	No		CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)			4	
COLM0011	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/21/91-02/06/92	0	4	
COLM0012	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/20/94-09/08/95	1	14	
COLM0013	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/03/75-03/10/97	21	50	
COLM0015	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	02/06/92-02/06/92	0	1	
COLM0016	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	02/06/92-02/06/92	0	1	
COLM0020	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/21/91-02/06/92	0	4	
COLM0021	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/12/95-08/08/95	0	2 7	
COLM0025	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/21/91-09/22/93	2	7	
COLM0027	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/21/91-02/03/92	0	4	
COLM0029	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/20/91-09/22/93	2	7	
COLM0030	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/14/95-03/12/96	0	4	
COLM0034	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/13/95-03/13/95	0	1	
COLM0035	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/13/95-03/12/96	0	4	
COLM0037	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/29/78-11/29/78	0	1	
COLM0039	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/10/78-09/22/93	15	35	
COLM0041	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/20/94-09/08/95	1	14	
COLM0044	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/30/78-08/15/91	12	2	
COLM0013	No	00041	WEATHER (WMO CODE 4501)	02/19/74-04/07/77	3	23	
COLM0039	No	00041	WEATHER (WMO CODE 4501)	02/19/74-04/07/77	3	23	
COLM0046	No	00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	01/01/01-01/01/01	0	1	
COLM0013	No	00060	FLOW, STREAM, MEAN DAILY CFS	08/07/73-11/03/75	2	6	
COLM0039	No	00060	FLOW, STREAM, MEAN DAILY CFS	08/07/73-08/12/74	1	5	
COLM0031	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/15/70-10/15/70	0	1	
COLM0004	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/15/77-08/15/77	ő	i	
COLM0011	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/21/91-02/06/92	ő	4	
COLM0011	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/20/94-09/08/95	1	13	
COLM0012	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/74-03/10/97	22	55	
COLM0015	No	00061	FLOW, STREAM, INSTANTANEOUS CFS FLOW, STREAM, INSTANTANEOUS CFS	02/06/92-02/06/92	0	1	
COLM0015	No	00061	FLOW, STREAM, INSTANTANEOUS CFS FLOW, STREAM, INSTANTANEOUS CFS	02/06/92-02/06/92	0	1	
COLM0010	No	00061		03/21/91-02/06/92	0	4	
		00061	FLOW, STREAM, INSTANTANEOUS CFS		0	1	
COLM0023	No		FLOW, STREAM, INSTANTANEOUS CFS	08/16/77-08/16/77		7	
COLM0025	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/21/91-09/22/93	2 0		
COLM0027	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/21/91-02/03/92		4	
COLM0029	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/20/91-09/22/93	2	7	
COLM0030	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/14/95-03/14/95	0	1	
COLM0039	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/74-09/22/93	18	46	
COLM0041	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/94-09/08/95	0	12	
COLM0044	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/15/91-08/15/91	0	1	
COLM0010	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	06/13/95-08/08/95	0	2	
COLM0011	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/30/91-08/30/91	0	1	
COLM0012	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	07/20/94-09/08/95	1	10	
COLM0013	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/30/91-03/10/97	5	29	
COLM0016	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	02/06/92-02/06/92	0	1	
COLM0020	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/28/91-08/28/91	0	1	
COLM0021	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	06/12/95-08/08/95	0	2 5	
COLM0025	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/28/91-09/22/93	2		
COLM0027	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/28/91-08/28/91	0	1	
COLM0029	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/28/91-09/22/93	2	5	
COLM0030	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	06/12/95-03/12/96	0	2	
COLM0035	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	03/13/95-03/12/96	0	4	
COLM0039	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/28/91-09/22/93	2	5	
COLM0041	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	10/03/94-09/08/95	0	12	
COLM0046	No	00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/20/68-12/04/78	10	60	T
COLM0001	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/31/77-08/31/77	0	1	
COLM0002	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/31/77-08/31/77	0	1	
COLM0003	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/16/77-08/16/77	0	1	
COLM0004	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/15/77-08/15/77	0	1	
COLM0005	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/09/76-11/10/76	0	9	
COLM0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/09/76-11/10/76	ő	9	
COLM0008	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/09/76-11/10/76	ŏ	9	
COLM0009	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/09/76-11/10/76	ő	9	
COLM0010	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/14/95-08/08/95	Ŏ	4	
COLM0011	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/91-02/06/92	Ŏ	4	
COLM0012	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	07/20/94-09/08/95	ĭ	12	
COLM0013	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	23	103	T,A,S
COLM0015	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	02/06/92-02/06/92	0	1	- ,,-
	- 10		(3		•	•	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLM0016	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/06/92-02/06/92	0	1	
COLM0018	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/09/76-11/11/76	0	9	
COLM0020	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/91-02/06/92	0	4	
COLM0021 COLM0022	No No	00095 00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/12/95-08/08/95	0	2 1	
COLM0022 COLM0023	No	00093	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/13/77-08/13/77 08/16/77-09/20/77	0	2	
COLM0025	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/21/91-09/22/93	2	7	
COLM0026	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/13/77-08/13/77	0	í	
COLM0027	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	03/21/91-02/03/92	0	4	
COLM0029	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/20/91-09/22/93	2	7	
COLM0030	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/14/95-03/12/96	0	4	
COLM0034	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/13/95-03/13/95	0	1	
COLM0035 COLM0037	No No	00095 00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/13/95-03/12/96 11/29/78-11/29/78	0	4 1	
COLM0037	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C) SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-09/22/93	20	77	T,S
COLM0041	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/03/94-09/08/95	0	12	1,5
COLM0042	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/77-08/18/77	Õ	1	
COLM0043	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/10/76-11/11/76	0	9	
COLM0044	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/30/78-08/15/91	12	2	
COLM0046	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/09/68-12/04/78	10	74	T,A
COLM0005	No	00300	OXYGEN, DISSOLVED MG/L	11/09/76-11/10/76	0	8	
COLM0007 COLM0008	No No	00300 00300	OXYGEN, DISSOLVED MG/L OXYGEN, DISSOLVED MG/L	11/09/76-11/10/76 11/09/76-11/10/76	0	9 9	
COLM0008	No	00300	OXYGEN, DISSOLVED MG/L	11/09/76-11/10/76	0	9	
COLM0010	No	00300	OXYGEN, DISSOLVED MG/L	03/14/95-08/08/95	ő	9	
COLM0011	No	00300	OXYGEN, DISSOLVED MG/L	03/21/91-02/06/92	Ö	3	
COLM0013	No	00300	OXYGEN, DISSOLVED MG/L	08/07/73-08/10/92	19	37	S
COLM0015	No	00300	OXYGEN, DISSOLVED MG/L	02/06/92-02/06/92	0	1	
COLM0016	No	00300	OXYGEN, DISSOLVED MG/L	02/06/92-02/06/92	0	1	
COLM0018	No	00300	OXYGEN, DISSOLVED MG/L	11/09/76-11/11/76	0	9	
COLM0020 COLM0021	No No	00300 00300	OXYGEN, DISSOLVED MG/L	03/21/91-02/06/92 06/12/95-08/08/95	0	3	
COLM0021 COLM0025	No	00300	OXYGEN, DISSOLVED MG/L OXYGEN, DISSOLVED MG/L	03/21/91-02/03/92	0	3	
COLM0027	No	00300	OXYGEN, DISSOLVED MG/L	03/21/91-02/03/92	0	9 3 2 3 3	
COLM0029	No	00300	OXYGEN, DISSOLVED MG/L	03/20/91-02/03/92	Ö	3	
COLM0030	No	00300	OXYGEN, DISSOLVED MG/L	03/14/95-03/12/96	0	4	
COLM0035	No	00300	OXYGEN, DISSOLVED MG/L	06/12/95-03/12/96	0	3	
COLM0039	No	00300	OXYGEN, DISSOLVED MG/L	08/07/73-03/24/92	18	42	T,S
COLM0043	No	00300	OXYGEN, DISSOLVED MG/L	11/10/76-11/11/76	0	9	
COLM0044 COLM0046	No No	00300 00300	OXYGEN, DISSOLVED MG/L OXYGEN, DISSOLVED MG/L	08/15/91-08/15/91 03/15/73-12/04/78	0 5	1 27	
COLM0046	No	00310	BOD, 5 DAY, 20 DEG C MG/L	03/05/68-12/04/78	10	41	T
COLM0046	No	00335	COD, .025N K2CR2O7 MG/L	10/11/72-10/11/72	0	1	1
COLM0001	No	00400	PH (STANDARD UNITS)	08/31/77-08/31/77	0	1	
COLM0002	No	00400	PH (STANDARD UNITS)	08/31/77-08/31/77	0	1	
COLM0003	No	00400	PH (STANDARD UNITS)	08/16/77-08/16/77	0	1	
COLM0004	No	00400	PH (STANDARD UNITS)	08/15/77-08/15/77	0	1	
COLM0005 COLM0007	No No	00400 00400	PH (STANDARD UNITS) PH (STANDARD UNITS)	11/09/76-11/10/76 11/09/76-11/10/76	0	9 9	
COLM0007	No	00400	PH (STANDARD UNITS)	11/09/76-11/10/76	0	9	
COLM0009	No	00400	PH (STANDARD UNITS)	11/09/76-11/10/76	ŏ	9	
COLM0010	No	00400	PH (STANDARD UNITS)	03/14/95-08/08/95	0	4	
COLM0011	No	00400	PH (STANDARD UNITS)	03/21/91-02/06/92	0	4	
COLM0012	No	00400	PH (STANDARD UNITS)	05/10/95-09/08/95	0	5	T. C
COLM0013	No	00400	PH (STANDARD UNITS)	08/07/73-03/10/97	23	60	T,S
COLM0015 COLM0016	No No	00400 00400	PH (STANDARD UNITS) PH (STANDARD UNITS)	02/06/92-02/06/92 02/06/92-02/06/92	0	1 1	
COLM0018	No	00400	PH (STANDARD UNITS)	11/09/76-11/11/76	0	9	
COLM0020	No	00400	PH (STANDARD UNITS)	03/21/91-02/06/92	ő	4	
COLM0021	No	00400	PH (STANDARD UNITS)	06/12/95-08/08/95	0	2	
COLM0022	No	00400	PH (STANDARD UNITS)	08/13/77-08/13/77	0	1	
COLM0023	No	00400	PH (STANDARD UNITS)	08/16/77-09/20/77	0	2	
COLM0025	No	00400	PH (STANDARD UNITS)	03/21/91-09/22/93	2	7	
COLM0026 COLM0027	No No	00400 00400	PH (STANDARD UNITS) PH (STANDARD UNITS)	08/13/77-08/13/77 03/21/91-02/03/92	0	1 4	
COLM0027 COLM0029	No No	00400	PH (STANDARD UNITS) PH (STANDARD UNITS)	03/20/91-02/03/92	2	7	
COLM0030	No	00400	PH (STANDARD UNITS)	03/14/95-03/12/96	0	4	
COLM0034	No	00400	PH (STANDARD UNITS)	03/13/95-03/13/95	ő	1	
COLM0035	No	00400	PH (STANDARD UNITS)	03/13/95-03/12/96	0	4	
COLM0037	No	00400	PH (STANDARD UNITS)	11/29/78-11/29/78	0	1	m «
COLM0039	No	00400	PH (STANDARD UNITS)	08/07/73-09/22/93	20	48	T,S
COLM0041	No	00400	PH (STANDARD UNITS)	06/09/95-09/08/95	0	4	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLM0042	No	00400	PH (STANDARD UNITS)	08/18/77-08/18/77	0	1	1 1015
COLM0043	No	00400	PH (STANDARD UNITS)	11/10/76-11/11/76	0	9	
COLM0044	No	00400	PH (STANDARD UNITS)	11/30/78-08/15/91	12	2	
COLM0046	No	00400	PH (STANDARD UNITS)	01/09/68-12/04/78	10	63	T
COLM0011	No	00403	PH, LAB, STANDARD UNITS SU	03/21/91-02/06/92	0	3	
COLM0012	No	00403	PH, LAB, STANDARD UNITS SU	07/20/94-09/08/95	1	13	
COLM0013	No	00403	PH, LAB, STANDARD UNITS SU	03/21/91-02/05/97	5	28	
COLM0015 COLM0016	No No	00403 00403	PH, LAB, STANDARD UNITS SU PH, LAB, STANDARD UNITS SU	02/06/92-02/06/92 02/06/92-02/06/92	0	1 1	
COLM0010	No	00403	PH, LAB, STANDARD UNITS SU	03/21/91-02/06/92	0	3	
COLM0020	No	00403	PH, LAB, STANDARD UNITS SU	06/12/95-06/12/95	0	1	
COLM0025	No	00403	PH, LAB, STANDARD UNITS SU	03/21/91-09/22/93	2	6	
COLM0027	No	00403	PH, LAB, STANDARD UNITS SU	03/21/91-02/03/92	0		
COLM0029	No	00403	PH, LAB, STANDARD UNITS SU	03/20/91-09/22/93	2	3 6	
COLM0039	No	00403	PH, LAB, STANDARD UNITS SU	03/20/91-09/22/93	2	6	
COLM0041	No	00403	PH, LAB, STANDARD UNITS SU	07/20/94-09/08/95	1	13	
COLM0001	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/31/77-08/31/77	0	1	
COLM0002 COLM0003	No	00405 00405	CARBON DIOXIDE (MG/L AS CO2)	08/31/77-08/31/77	0	1 1	
COLM0003	No No	00405	CARBON DIOXIDE (MG/L AS CO2) CARBON DIOXIDE (MG/L AS CO2)	08/16/77-08/16/77 08/15/77-08/15/77	0	1	
COLM0004 COLM0013	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/07/73-07/06/77	3	28	
COLM0023	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/16/77-09/20/77	0	2	
COLM0037	No	00405	CARBON DIOXIDE (MG/L AS CO2)	11/29/78-11/29/78	ő	1	
COLM0039	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/07/73-11/15/78	5	33	
COLM0044	No	00405	CARBON DIOXIDE (MG/L AS CO2)	11/30/78-11/30/78	0	1	
COLM0001	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/31/77-08/31/77	0	1	
COLM0002	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/31/77-08/31/77	0	1	
COLM0003	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/16/77-08/16/77	0	1	
COLM0004	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/77-08/15/77	0	1	
COLM0013 COLM0023	No	00410 00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/07/73-07/06/77 08/16/77-09/20/77	3	28	
COLM0023 COLM0037	No No	00410	ALKALINITY, TOTAL (MG/L AS CACO3) ALKALINITY, TOTAL (MG/L AS CACO3)	11/29/78-11/29/78	0	2	
COLM0037	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/07/73-08/21/80	7	40	
COLM0044	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/30/78-11/30/78	ó	1	
COLM0046	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/12/78-12/04/78	ő	2	
COLM0001	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/31/77-08/31/77	0	1	
COLM0002	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/31/77-08/31/77	0	1	
COLM0003	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/16/77-08/16/77	0	1	
COLM0004	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/15/77-08/15/77	0	1	
COLM0013	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/07/73-07/06/77	3	28	
COLM0023	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/16/77-09/20/77	0	2	
COLM0037 COLM0039	No No	00440 00440	BICARBONATE ION (MG/L AS HCO3) BICARBONATE ION (MG/L AS HCO3)	11/29/78-11/29/78 08/07/73-11/15/78	0 5	1 33	
COLM0039 COLM0044	No	00440	BICARBONATE ION (MG/L AS HCO3)	11/30/78-11/30/78	0	1	
COLM0001	No	00445	CARBONATE ION (MG/L AS CO3)	08/31/77-08/31/77	ő	1	
COLM0002	No	00445	CARBONATE ION (MG/L AS CO3)	08/31/77-08/31/77	ő	1	
COLM0003	No	00445	CARBONATE ION (MG/L AS CO3)	08/16/77-08/16/77	0	1	
COLM0004	No	00445	CARBONATE ION (MG/L AS CO3)	08/15/77-08/15/77	0	1	
COLM0013	No	00445	CARBONATE ION (MG/L AS CO3)	08/07/73-07/06/77	3	27	
COLM0023	No	00445	CARBONATE ION (MG/L AS CO3)	08/16/77-09/20/77	0	2	
COLM0037	No	00445	CARBONATE ION (MG/L AS CO3)	11/29/78-11/29/78	0	1	
COLM0039	No	00445	CARBONATE ION (MG/L AS CO3)	08/07/73-11/15/78	5 0	32	
COLM0044 COLM0046	No No	00445 00500	CARBONATE ION (MG/L AS CO3)	11/30/78-11/30/78 04/01/74-09/08/75	1	1 7	
COLM0046 COLM0046	No	00505	RESIDUE, TOTAL (MG/L) RESIDUE, TOTAL VOLATILE (MG/L)	03/05/68-09/27/73	5	14	
COLM0046	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/05/68-12/04/78	10	42	T
COLM0046	No	00545	RESIDUE, SETTLEABLE (ML/L)	03/05/68-05/17/73	5	15	•
COLM0005	No	00600	NITROGEN, TOTAL (MG/L AS N)	11/09/76-11/10/76	0	9	
COLM0007	No	00600	NITROGEN, TOTAL (MG/L AS N)	11/09/76-11/10/76	0	9	
COLM0008	No	00600	NITROGEN, TOTAL (MG/L AS N)	11/09/76-11/10/76	0	10	
COLM0009	No	00600	NITROGEN, TOTAL (MG/L AS N)	11/09/76-11/10/76	0	9	
COLM0018	No	00600	NITROGEN, TOTAL (MG/L AS N)	11/09/76-11/11/76	0	9	
COLM0043	No	00600	NITROGEN, TOTAL (MG/L AS N)	11/10/76-11/11/76	0	9	
COLM0005	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/09/76-11/10/76	0	9	
COLM0007 COLM0008	No No	00605 00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N) NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/09/76-11/10/76 11/09/76-11/10/76	0	9 10	
COLM0008 COLM0009	No No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N) NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/09/76-11/10/76	0	9	
COLM0003	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N) NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/09/76-11/11/76	0	9	
COLM0043	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/10/76-11/11/76	0	9	
COLM0011	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/21/91-08/30/91	ő	2	
COLM0013	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/21/91-08/30/91	0	2	
COLM0020	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/21/91-08/28/91	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLM0025	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/21/91-08/28/91	0	2	
COLM0027	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/21/91-08/28/91	0	2 2 2 9	
COLM0029	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/20/91-08/28/91	0	2	
COLM0039	No No	00608 00610	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N) NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/20/91-08/28/91	$0 \\ 0$	2	
COLM0005 COLM0007	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N) NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/76-11/10/76 11/09/76-11/10/76	0	9	
COLM0007	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/76-11/10/76	0	10	
COLM0009	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/76-11/10/76	ő	9	
COLM0018	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/76-11/11/76	0	9	
COLM0043	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/10/76-11/11/76	0	9	
COLM0046	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/17/68-12/04/78	10	54	T
COLM0011	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	03/21/91-08/30/91	0	2	
COLM0013 COLM0020	No No	00613 00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N) NITRITE NITROGEN, DISSOLVED (MG/L AS N)	03/21/91-08/30/91 08/28/91-08/28/91	0	2	
COLM0020 COLM0025	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/28/91-08/28/91	0	1	
COLM0027	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/28/91-08/28/91	ő	1	
COLM0029	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/28/91-08/28/91	Õ	1	
COLM0039	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/28/91-08/28/91	0	1	
COLM0046	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/20/68-12/04/78	10	51	T
COLM0046	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/17/68-12/04/78	10	57	T
COLM0005	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/76-11/10/76	0	9 9	
COLM0007 COLM0008	No No	00625 00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N) NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/76-11/10/76 11/09/76-11/10/76	$0 \\ 0$	10	
COLM0008	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/76-11/10/76	0		
COLM0018	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/76-11/11/76	ő	9 9 9 9	
COLM0043	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/10/76-11/11/76	ő	9	
COLM0005	No	00630	NITRITE PLUS NITRATÉ, TOTAL 1 DET. (MG/L AS N)	11/09/76-11/10/76	0	9	
COLM0007	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/76-11/10/76	0	9	
COLM0008	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/76-11/10/76	0	10	
COLM0009	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/76-11/10/76	0	9 9	
COLM0018 COLM0043	No No	00630 00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N) NITRITE PLUS NITRATE. TOTAL 1 DET. (MG/L AS N)	11/09/76-11/11/76 11/10/76-11/11/76	$0 \\ 0$	9	
COLM0043	No	00631	NITRITE PLUS NITRATE, TOTAL T DET. (MG/L AS N) NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/31/77-08/31/77	0	1	
COLM0001	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/31/77-08/31/77	ő	1	
COLM0003	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/16/77-08/16/77	Õ	1	
COLM0004	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/15/77-08/15/77	0	1	
COLM0011	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/21/91-02/06/92	0	3	
COLM0013	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/07/73-09/27/95	22	45	T,S
COLM0015	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	02/06/92-02/06/92	0	1	
COLM0016 COLM0020	No No	00631 00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	02/06/92-02/06/92 03/21/91-02/06/92	$0 \\ 0$	1	
COLM0023	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/16/77-09/20/77	0	3 2 3 3	
COLM0025	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/21/91-02/03/92	ő	3	
COLM0027	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/21/91-02/03/92	0	3	
COLM0029	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/20/91-02/03/92	0	3	
COLM0037	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/29/78-11/29/78	0	1	
COLM0039	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/07/73-02/05/92	18	43	T,S
COLM0044 COLM0046	No No	00631 00650	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N) PHOSPHATE, TOTAL (MG/L AS PO4)	11/30/78-11/30/78 09/17/68-08/16/73	0 4	1 32	
COLM0040 COLM0001	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/31/77-08/31/77	0	1	
COLM0002	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/31/77-08/31/77	ŏ	i	
COLM0003	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/16/77-08/16/77	0	1	
COLM0004	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/15/77-08/15/77	0	1	
COLM0013	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/07/73-07/06/77	3	28	
COLM0023	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/16/77-09/20/77	0	2	
COLM0037 COLM0039	No No	00660 00660	PHOSPHATE, ORTHO (MG/L AS PO4) PHOSPHATE, ORTHO (MG/L AS PO4)	11/29/78-11/29/78 08/07/73-03/15/79	0 5	1 34	
COLM0039	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/30/78-11/30/78	0	1	
COLM0005	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/76-11/10/76	ŏ	9	
COLM0007	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/76-11/10/76	0	9	
COLM0008	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/76-11/10/76	0	10	
COLM0009	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/76-11/10/76	0	9	
COLM0018	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/76-11/11/76	0	9	
COLM0043 COLM0046	No No	00665 00665	PHOSPHORUS, TOTAL (MG/L AS P) PHOSPHORUS, TOTAL (MG/L AS P)	11/10/76-11/11/76 04/01/74-12/04/78	0 4	9 17	
COLM0046 COLM0037	No	00666	PHOSPHORUS, TOTAL (MG/L AS P) PHOSPHORUS, DISSOLVED (MG/L AS P)	11/29/78-11/29/78	0	1 /	
COLM0039	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	11/15/78-08/21/80	1	8	
COLM0044	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	11/30/78-11/30/78	0	1	
COLM0001	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/31/77-08/31/77	0	1	
COLM0002	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/31/77-08/31/77	0	1	
COLM0003	No No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/16/77-08/16/77	0	1	
COLM0004	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/15/77-08/15/77	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLM0011	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/21/91-08/30/91	0	2	
COLM0013	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/07/73-08/30/91	18	30	
COLM0020	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/21/91-08/28/91	0	2 2 2 2 2	
COLM0023	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/16/77-09/20/77	0	2	
COLM0025	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/21/91-08/28/91	0	2	
COLM0027	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/21/91-08/28/91	0	2	
COLM0029	No	00671 00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/20/91-08/28/91 11/29/78-11/29/78	0	1	
COLM0037 COLM0039	No No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/07/73-08/28/91	18	36	
COLM0039	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS I)	11/30/78-11/30/78	0	1	
COLM0013	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/92-03/24/92	ő	1	
COLM0046	No	00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	02/20/68-12/04/78	10	41	T
COLM0001	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/31/77-08/31/77	0	1	
COLM0002	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/31/77-08/31/77	0	1	
COLM0003	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/16/77-08/16/77	0	1	
COLM0004	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/15/77-08/15/77	0	1	
COLM0013	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/07/73-07/06/77	3	28	
COLM0023	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/16/77-09/20/77	0	2	
COLM0037	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/29/78-11/29/78	0	1	
COLM0039	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/07/73-08/21/80	7	40	
COLM0044	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/30/78-11/30/78	0	1	T
COLM0046 COLM0001	No	00900 00902	HARDNESS, TOTAL (MG/L AS CACO3)	02/20/68-12/04/78	10 0	61	1
COLM0001 COLM0002	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3) HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/31/77-08/31/77 08/31/77-08/31/77	0	1 1	
COLM0002 COLM0003	No No	00902	,		0	1	
COLM0003 COLM0004	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3) HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/16/77-08/16/77 08/15/77-08/15/77	0	1	
COLM0004 COLM0013	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACOS)	08/07/73-07/06/77	3	28	
COLM0013	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACOS)	08/16/77-09/20/77	0	28	
COLM0023 COLM0037	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACOS)	11/29/78-11/29/78	0	1	
COLM0037	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/07/73-08/21/80	7	40	
COLM0044	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/30/78-11/30/78	ó	1	
COLM0046	No	00910	CALCIUM (MG/L AS CACO3)	02/20/68-12/04/78	10	58	T
COLM0001	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/31/77-08/31/77	0	1	•
COLM0002	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/31/77-08/31/77	Õ	1	
COLM0003	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/16/77-08/16/77	0	1	
COLM0004	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/15/77-08/15/77	0	1	
COLM0011	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/21/91-02/06/92	0	3	
COLM0012	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/20/94-09/08/95	1	13	
COLM0013	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/73-02/05/97	23	53	T,S
COLM0015	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/06/92-02/06/92	0	1	
COLM0016	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/06/92-02/06/92	0	1	
COLM0020	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/21/91-02/06/92	0	3	
COLM0021	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/12/95-06/12/95	0	1	
COLM0023	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/16/77-09/20/77	0	2 6 3	
COLM0025	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/21/91-09/22/93	2	6	
COLM0027	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/21/91-02/03/92	0 2		
COLM0029 COLM0037	No	00915 00915	CALCIUM, DISSOLVED (MG/L AS CA) CALCIUM, DISSOLVED (MG/L AS CA)	03/20/91-09/22/93 11/29/78-11/29/78	0	6	
COLM0037	No No	00915	CALCIUM, DISSOLVED (MG/L AS CA) CALCIUM, DISSOLVED (MG/L AS CA)	08/07/73-09/22/93	20	1 46	T,S
COLM0039	No	00915	CALCIUM, DISSOLVED (MG/L AS CA) CALCIUM, DISSOLVED (MG/L AS CA)	07/20/94-09/08/95	1	13	1,3
COLM0041 COLM0044	No	00915	CALCIUM, DISSOLVED (MG/L AS CA) CALCIUM, DISSOLVED (MG/L AS CA)	11/30/78-11/30/78	0	13	
COLM0001	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/31/77-08/31/77	ő	i	
COLM0002	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/31/77-08/31/77	ő	i	
COLM0003	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/16/77-08/16/77	Õ	ī	
COLM0004	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/15/77-08/15/77	0	1	
COLM0011	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/21/91-02/06/92	0	3	
COLM0012	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/20/94-09/08/95	1	13	
COLM0013	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/73-02/05/97	23	53	T,S
COLM0015	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/06/92-02/06/92	0	1	
COLM0016	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/06/92-02/06/92	0	1	
COLM0020	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/21/91-02/06/92	0	3	
COLM0021	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/12/95-06/12/95	0	1	
COLM0023	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/16/77-09/20/77	0	2	
COLM0025	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/21/91-09/22/93	2	6	
COLM0027	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/21/91-02/03/92	0	3	
COLM0029 COLM0037	No No	00925 00925	MAGNESIUM, DISSOLVED (MG/L AS MG) MAGNESIUM, DISSOLVED (MG/L AS MG)	03/20/91-09/22/93 11/29/78-11/29/78	2 0	6	
COLM0037 COLM0039	No No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG) MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/73-09/22/93	20	1 46	T,S
COLM0039 COLM0041	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG) MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/73-09/22/93	1	13	1,3
COLM0041 COLM0044	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG) MAGNESIUM, DISSOLVED (MG/L AS MG)	11/30/78-11/30/78	0	13	
COLM0044 COLM0046	No	00923	MAGNESIUM, TOTAL (MG/L AS MG)	02/20/68-12/04/78	10	58	T
COLM0046	No	00927	SODIUM, TOTAL (MG/L AS MG)	02/20/68-12/04/78	10	61	Ť
2 3 2.1100 10	1.10	00/2/		22,20,00 12,01,70	10	01	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLM0001	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/31/77-08/31/77		1	
COLM0002	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/31/77-08/31/77		1	
COLM0003	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/16/77-08/16/77		1	
COLM0004	No	00930 00930	SODIUM, DISSOLVED (MG/L AS NA) SODIUM, DISSOLVED (MG/L AS NA)	08/15/77-08/15/77 03/21/91-02/06/92		1 3	
COLM0011 COLM0012	No No	00930	SODIUM, DISSOLVED (MG/L AS NA) SODIUM, DISSOLVED (MG/L AS NA)	03/21/91-02/06/92 07/20/94-09/08/95		13	
COLM0012	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/07/73-02/05/97		53	T,S
COLM0015	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/06/92-02/06/92		1	1,5
COLM0016	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/06/92-02/06/92		1	
COLM0020	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/21/91-02/06/92	0	3	
COLM0021	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/12/95-06/12/95		1	
COLM0023	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/16/77-09/20/77		2	
COLM0025	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/21/91-09/22/93		6	
COLM0027 COLM0029	No No	00930 00930	SODIUM, DISSOLVED (MG/L AS NA) SODIUM, DISSOLVED (MG/L AS NA)	03/21/91-02/03/92 03/20/91-09/22/93		3 6	
COLM0029	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/29/78-11/29/78		1	
COLM0037	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/07/73-09/22/93		46	T,S
COLM0041	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/20/94-09/08/95		13	1,0
COLM0044	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/30/78-11/30/78		1	
COLM0001	No	00931	SODIUM ADSORPTION RATIO	08/31/77-08/31/77	0	1	
COLM0002	No	00931	SODIUM ADSORPTION RATIO	08/31/77-08/31/77		1	
COLM0003	No	00931	SODIUM ADSORPTION RATIO	08/16/77-08/16/77		1	
COLM0004	No	00931	SODIUM ADSORPTION RATIO	08/15/77-08/15/77		1 28	
COLM0013 COLM0023	No No	00931 00931	SODIUM ADSORPTION RATIO	08/07/73-07/06/77		28	
COLM0023	No No	00931	SODIUM ADSORPTION RATIO SODIUM ADSORPTION RATIO	08/16/77-09/20/77 11/29/78-11/29/78	-	1	
COLM0037	No	00931	SODIUM ADSORPTION RATIO	08/07/73-08/21/80		40	
COLM0044	No	00931	SODIUM ADSORPTION RATIO	11/30/78-11/30/78		1	
COLM0046	No	00931	SODIUM ADSORPTION RATIO	02/20/68-12/04/78		60	T
COLM0001	No	00932	SODIUM, PERCENT	08/31/77-08/31/77	0	1	
COLM0002	No	00932	SODIUM, PERCENT	08/31/77-08/31/77		1	
COLM0003	No	00932	SODIUM, PERCENT	08/16/77-08/16/77		1	
COLM0004	No	00932	SODIUM, PERCENT	08/15/77-08/15/77		1	
COLM0013	No	00932 00932	SODIUM, PERCENT	08/07/73-07/06/77		28 2	
COLM0023 COLM0037	No No	00932	SODIUM, PERCENT SODIUM, PERCENT	08/16/77-09/20/77 11/29/78-11/29/78		1	
COLM0037	No	00932	SODIUM, PERCENT	08/07/73-08/21/80		40	
COLM0044	No	00932	SODIUM, PERCENT	11/30/78-11/30/78		1	
COLM0039	No	00933	SODIUM, PLUS POTASSIUM (MG/L)	05/11/79-01/29/80		4	
COLM0001	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/31/77-08/31/77	0	1	
COLM0002	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/31/77-08/31/77		1	
COLM0003	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/16/77-08/16/77		1	
COLM0004	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/15/77-08/15/77		1 3	
COLM0011 COLM0012	No No	00935 00935	POTASSIUM, DISSOLVED (MG/L AS K) POTASSIUM, DISSOLVED (MG/L AS K)	03/21/91-02/06/92 07/20/94-09/08/95		13	
COLM0012	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/07/73-02/05/97		53	T,S
COLM0015	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/06/92-02/06/92		1	1,5
COLM0016	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/06/92-02/06/92		1	
COLM0020	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/21/91-02/06/92	0	3	
COLM0021	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/12/95-06/12/95		1	
COLM0023	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/16/77-09/20/77		2	
COLM0025	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/21/91-09/22/93		6	
COLM0027 COLM0029	No No	00935 00935	POTASSIUM, DISSOLVED (MG/L AS K) POTASSIUM, DISSOLVED (MG/L AS K)	03/21/91-02/03/92 03/20/91-09/22/93	-	3 6	
COLM0029	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/29/78-11/29/78		1	
COLM0037	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/07/73-09/22/93		46	T,S
COLM0041	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/20/94-09/08/95		13	1,0
COLM0044	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/30/78-11/30/78	0	1	
COLM0046	No	00937	POTASSIUM, TOTAL MG/L AS K)	04/12/78-04/12/78	0	1	
COLM0001	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/31/77-08/31/77		1	
COLM0002	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/31/77-08/31/77		1	
COLM0003 COLM0004	No No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/16/77-08/16/77		1	
COLM0004 COLM0011	No No	00940 00940	CHLORIDE,TOTAL IN WATER MG/L CHLORIDE,TOTAL IN WATER MG/L	08/15/77-08/15/77 03/21/91-02/06/92		1 3	
COLM0011 COLM0012	No	00940	CHLORIDE, TOTAL IN WATER MG/L CHLORIDE, TOTAL IN WATER MG/L	03/21/91-02/06/92 07/20/94-09/08/95		13	
COLM0012	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/07/73-02/05/97		53	T,S
COLM0015	No	00940	CHLORIDE, TOTAL IN WATER MG/L	02/06/92-02/06/92		1	,~
COLM0016	No	00940	CHLORIDE, TOTAL IN WATER MG/L	02/06/92-02/06/92		1	
COLM0020	No	00940	CHLORIDE, TOTAL IN WATER MG/L	03/21/91-02/06/92		3	
COLM0021	No	00940	CHLORIDE, TOTAL IN WATER MG/L	06/12/95-06/12/95		1	
COLM0023	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/16/77-09/20/77	0	2	
COLM0025	No	00940	CHLORIDE, TOTAL IN WATER MG/L	03/21/91-09/22/93	2	6	

T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLM0027	No	00940	CHLORIDE, TOTAL IN WATER MG/L	03/21/91-02/03/92	0	3	
COLM0029	No	00940	CHLORIDE, TOTAL IN WATER MG/L	03/20/91-09/22/93	2	6	
COLM0037	No	00940	CHLORIDE, TOTAL IN WATER MG/L	11/29/78-11/29/78	0	1	
COLM0039	No	00940	CHLORIDE, TOTAL IN WATER MG/L	08/07/73-09/22/93	20	46	T,S
COLM0041	No	00940	CHLORIDE, TOTAL IN WATER MG/L	07/20/94-09/08/95	1	13	
COLM0044 COLM0046	No No	00940 00940	CHLORIDE,TOTAL IN WATER MG/L CHLORIDE,TOTAL IN WATER MG/L	11/30/78-11/30/78 02/20/68-12/04/78	0 10	1 61	T
COLM0001	No	00940	SULFATE, TOTAL (MG/L AS SO4)	08/31/77-08/31/77	0	1	1
COLM0002	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/31/77-08/31/77	ő	1	
COLM0003	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/16/77-08/16/77	Õ	1	
COLM0004	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/77-08/15/77	0	1	
COLM0011	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/21/91-02/06/92	0	3	
COLM0012	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/20/94-09/08/95	1	13	
COLM0013	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/07/73-02/05/97	23	54	T,S
COLM0015 COLM0016	No	00945 00945	SULFATE, TOTAL (MG/L AS SO4) SULFATE, TOTAL (MG/L AS SO4)	02/06/92-02/06/92 02/06/92-02/06/92	0	1	
COLM0016 COLM0020	No No	00945	SULFATE, TOTAL (MG/L AS SO4) SULFATE, TOTAL (MG/L AS SO4)	03/21/91-02/06/92	0	1 3	
COLM0020	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/12/95-06/12/95	0	1	
COLM0023	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/16/77-09/20/77	ő	2	
COLM0025	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/21/91-09/22/93	2	6	
COLM0027	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/21/91-02/03/92	0	3	
COLM0029	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/20/91-09/22/93	2	6	
COLM0037	No	00945	SULFATE, TOTAL (MG/L AS SO4)	11/29/78-11/29/78	0	1	
COLM0039	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/07/73-09/22/93	20	46	T,S
COLM0041	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/20/94-09/08/95	1	13	
COLM0044 COLM0046	No	00945 00945	SULFATE, TOTAL (MG/L AS SO4)	11/30/78-11/30/78 09/17/68-12/04/78	0 10	1 52	T
COLM0046 COLM0001	No No	00943	SULFATE, TOTAL (MG/L AS SO4) FLUORIDE, DISSOLVED (MG/L AS F)	08/31/77-08/31/77	0	1	1
COLM0001 COLM0002	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/31/77-08/31/77	0	1	
COLM0003	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/16/77-08/16/77	ő	i	
COLM0004	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/15/77-08/15/77	0	1	
COLM0011	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/21/91-02/06/92	0	3	
COLM0012	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/20/94-09/08/95	1	13	
COLM0013	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/07/73-02/05/97	23	52	T,S
COLM0015	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/06/92-02/06/92	0	1	
COLM0016	No	00950 00950	FLUORIDE, DISSOLVED (MG/L AS F) FLUORIDE, DISSOLVED (MG/L AS F)	02/06/92-02/06/92	$0 \\ 0$	1 3	
COLM0020 COLM0021	No No	00950	FLUORIDE, DISSOLVED (MG/L AS F) FLUORIDE, DISSOLVED (MG/L AS F)	03/21/91-02/06/92 06/12/95-06/12/95	0	1	
COLM0021	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/16/77-09/20/77	0	2	
COLM0025	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/21/91-09/22/93	2	2 6	
COLM0027	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/21/91-02/03/92	0	3	
COLM0029	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/20/91-09/22/93	2	6	
COLM0037	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/29/78-11/29/78	0	1	
COLM0039	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/07/73-09/22/93	20	46	T,S
COLM0041	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/20/94-09/08/95	1	13	
COLM0044 COLM0046	No No	00950 00951	FLUORIDE, DISSOLVED (MG/L AS F)	11/30/78-11/30/78 02/20/68-07/14/77	0 9	1 42	
COLM0040 COLM0001	No	00955	FLUORIDE, TOTAL (MG/L AS F) SILICA, DISSOLVED (MG/L AS SI02)	08/31/77-08/31/77	0	1	
COLM0002	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/31/77-08/31/77	ő	1	
COLM0003	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/16/77-08/16/77	ő	i	
COLM0004	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/15/77-08/15/77	0	1	
COLM0011	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/21/91-02/06/92	0	3	
COLM0012	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/20/94-09/08/95	1	13	
COLM0013	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/07/73-02/05/97	23	52	T,S
COLM0015	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	02/06/92-02/06/92	0	1	
COLM0016 COLM0020	No No	00955 00955	SILICA, DISSOLVED (MG/L AS SI02) SILICA, DISSOLVED (MG/L AS SI02)	02/06/92-02/06/92 03/21/91-02/06/92	0	1 3	
COLM0020 COLM0021	No No	00955	SILICA, DISSOLVED (MG/L AS SI02) SILICA, DISSOLVED (MG/L AS SI02)	06/12/95-06/12/95	0	1	
COLM0021	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/16/77-09/20/77	0	2	
COLM0025	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/21/91-09/22/93	2	6	
COLM0027	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/21/91-02/03/92	0	3	
COLM0029	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/20/91-09/22/93	2	6	
COLM0037	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/29/78-11/29/78	0	1	
COLM0039	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/07/73-09/22/93	20	46	T,S
COLM0041	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/20/94-09/08/95	1	13	
COLM0044 COLM0046	No No	00955 00980	SILICA, DISSOLVED (MG/L AS SI02) IRON,TOTAL RECOVERABLE IN WATER AS FE UG/L	11/30/78-11/30/78 02/20/68-12/04/78	0 10	1 59	T
COLM0040 COLM0011	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/21/91-08/30/91	0	2	1
COLM0011	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/21/91-08/30/91	0	2	
COLM0020	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/21/91-08/28/91	ő	2	
COLM0025	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/21/91-08/28/91	0	2	
COLM0027	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/21/91-08/28/91	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLM0029	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/20/91-08/28/91	0	2	
COLM0039	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/20/91-08/28/91	0	2	
COLM0041	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/15/70-10/15/70	0	1	
COLM0046	No	01002	ARSENIC, TOTAL (UG/L AS AS)	02/20/68-12/04/78	10	42	T
COLM0011	No No	01020	BORON, DISSOLVED (UG/L AS B)	03/21/91-02/06/92	0 1	3	
COLM0013 COLM0015	No No	01020 01020	BORON, DISSOLVED (UG/L AS B) BORON, DISSOLVED (UG/L AS B)	03/21/91-07/15/92 02/06/92-02/06/92	0	1	
COLM0015	No	01020	BORON, DISSOLVED (UG/L AS B)	02/06/92-02/06/92	0	1	
COLM0020	No	01020	BORON, DISSOLVED (UG/L AS B)	03/21/91-02/06/92	ő	3	
COLM0025	No	01020	BORON, DISSOLVED (UG/L AS B)	03/21/91-02/03/92	0	3	
COLM0027	No	01020	BORON, DISSOLVED (UG/L AS B)	03/21/91-02/03/92	0	3	
COLM0029	No	01020	BORON, DISSOLVED (UG/L AS B)	03/20/91-02/03/92	0	3	
COLM0039	No	01020	BORON, DISSOLVED (UG/L AS B)	03/20/91-03/24/92	1	4	
COLM0046	No	01022 01025	BORON, TOTAL (UG/L AS B)	01/09/68-09/06/77	9 0	44 2	
COLM0011 COLM0013	No No	01025	CADMIUM, DISSOLVED (UG/L AS CD) CADMIUM, DISSOLVED (UG/L AS CD)	03/21/91-08/30/91 03/21/91-08/30/91	0	2	
COLM0020	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/21/91-08/28/91	ő	2 2 2 2 2	
COLM0025	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/21/91-08/28/91	ő	$\frac{1}{2}$	
COLM0027	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/21/91-08/28/91	0	2	
COLM0029	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/20/91-08/28/91	0	2	
COLM0039	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/20/91-08/28/91	0	2	
COLM0041	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/15/70-10/15/70	0	1	
COLM0011 COLM0013	No No	01030 01030	CHROMIUM, DISSOLVED (UG/L AS CR) CHROMIUM, DISSOLVED (UG/L AS CR)	03/21/91-08/30/91 03/21/91-08/30/91	$0 \\ 0$	2	
COLM0013	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/21/91-08/28/91	0	2	
COLM0025	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/21/91-08/28/91	ő	$\frac{2}{2}$	
COLM0027	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/21/91-08/28/91	ő	$\frac{1}{2}$	
COLM0029	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/20/91-08/28/91	0	2 2 2 2 2 2 2	
COLM0039	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/20/91-08/28/91	0		
COLM0041	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	10/15/70-10/15/70	0	1	
COLM0046	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	02/20/68-06/07/76	8	32	
COLM0041 COLM0041	No No	01034 01035	CHROMIUM, TOTAL (UG/L AS CR) COBALT, DISSOLVED (UG/L AS CO)	10/15/70-10/15/70 10/15/70-10/15/70	$0 \\ 0$	1 1	
COLM0041 COLM0011	No	01033	COPPER, DISSOLVED (UG/L AS CU)	03/21/91-08/30/91	0	2	
COLM0011	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/21/91-08/30/91	0	2	
COLM0020	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/21/91-08/28/91	ŏ	2 2 2 2	
COLM0025	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/21/91-08/28/91	0	2	
COLM0027	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/21/91-08/28/91	0	2	
COLM0029	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/20/91-08/28/91	0	2	
COLM0039	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/20/91-08/28/91	0	2	
COLM0001 COLM0002	No No	01046 01046	IRON, DISSOLVED (UG/L AS FE) IRON, DISSOLVED (UG/L AS FE)	08/31/77-08/31/77 08/31/77-08/31/77	$0 \\ 0$	1 1	
COLM0002 COLM0003	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/16/77-08/16/77	0	1	
COLM0004	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/15/77-08/15/77	ŏ	i	
COLM0013	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/27/73-07/06/77	3	27	
COLM0023	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/16/77-09/20/77	0	2	
COLM0037	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/29/78-11/29/78	0	1	
COLM0039	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/07/73-08/21/80	7	40	
COLM0044 COLM0011	No No	01046 01049	IRON, DISSOLVED (UG/L AS FE) LEAD. DISSOLVED (UG/L AS PB)	11/30/78-11/30/78 03/21/91-08/30/91	$0 \\ 0$	1 2	
COLM0011 COLM0013	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/21/91-08/30/91	0	2	
COLM0020	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/21/91-08/28/91	ŏ	2 2	
COLM0025	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/21/91-08/28/91	0	2	
COLM0027	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/21/91-08/28/91	0	2	
COLM0029	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/20/91-08/28/91	0	2	
COLM0039	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/20/91-08/28/91	0	2	
COLM0041 COLM0001	No No	01049 01056	LEAD, DISSOLVED (UG/L AS PB) MANGANESE, DISSOLVED (UG/L AS MN)	10/15/70-10/15/70 08/31/77-08/31/77	$0 \\ 0$	1	
COLM0001 COLM0002	No	01056	MANGANESE, DISSOLVED (UG/L AS MN) MANGANESE, DISSOLVED (UG/L AS MN)	08/31/77-08/31/77	0	1	
COLM0003	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/16/77-08/16/77	ő	1	
COLM0004	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/15/77-08/15/77	Ö	1	
COLM0013	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/07/73-07/06/77	3	28	
COLM0023	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/16/77-09/20/77	0	2	
COLM0037	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/29/78-11/29/78	0	1	
COLM0039	No No	01056 01056	MANGANESE, DISSOLVED (UG/L AS MN) MANGANESE, DISSOLVED (UG/L AS MN)	08/07/73-08/21/80	7 0	40 1	
COLM0044 COLM0011	No No	01030	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/30/78-11/30/78 03/21/91-08/30/91	0	2	
COLM0011 COLM0013	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/21/91-08/30/91	0	2	
COLM0020	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/21/91-08/28/91	ŏ	2	
COLM0025	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/21/91-08/28/91	Ō	2	
COLM0027	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/21/91-08/28/91	0	2	
COLM0029	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/20/91-08/28/91	0	2	

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLM0039	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/20/91-08/28/91	0	2	
COLM0046	No	01074	NICKEL,TOTAL RECOVERABLE IN WATER AS NI UG/L	12/04/78-12/04/78	0	1	
COLM0046	No	01079	SILVER,TOTAL RECOVERABLE IN WATER AS AG UG/L	11/20/68-08/09/76	7	18	
COLM0011	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	03/21/91-08/30/91	0	2	
COLM0013	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	03/21/91-08/30/91	0	2 2 2	
COLM0020	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	03/21/91-08/28/91	0	2	
COLM0025	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	03/21/91-08/28/91	0	2	
COLM0027	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	03/21/91-08/28/91	0	2	
COLM0029	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	03/20/91-08/28/91	0	2	
COLM0039 COLM0011	No No	01085 01090	VANADIUM, DISSOLVED (UG/L AS V) ZINC, DISSOLVED (UG/L AS ZN)	03/20/91-08/28/91 03/21/91-08/30/91	0	2	
COLM0011	No	01090	ZINC, DISSOLVED (UG/L AS ZN) ZINC, DISSOLVED (UG/L AS ZN)	03/21/91-08/30/91	0	2	
COLM0013	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/21/91-08/28/91	ő	2	
COLM0025	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/21/91-08/28/91	ŏ	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
COLM0027	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/21/91-08/28/91	0	2	
COLM0029	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/20/91-08/28/91	0	2	
COLM0039	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/20/91-08/28/91	0	2	
COLM0041	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/70-10/15/70	0	1	_
COLM0046	No	01094	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	02/20/68-12/04/78	10	55	T
COLM0046	No	01104	ALUMINUM, TOTAL RECOVERABLE IN WATER AS AL UG/L	12/04/78-12/04/78	0	1	т
COLM0046	No	01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD UG/L	01/09/68-12/04/78	10 10	43	T T
COLM0046 COLM0046	No No	01114 01118	LEAD, TOTAL RECOVERABLE IN WATER AS PB UG/L CHROMIUM TOTAL RECOVERABLE IN WATER AS CR UG/L	02/20/68-12/04/78 08/09/76-11/09/77	10	43 7	1
COLM0046	No	01119	COPPER, TOTAL RECOVERABLE IN WATER AS CU UG/L	02/20/68-12/04/78	10	45	T
COLM0046	No	01113	MANGANESE, TOTAL RECOVERABLE IN WATER AS COOGLE	02/20/68-12/04/78	10	57	Ť
COLM0046	No	01129	MOLYBDENUM, TOTAL RECOVERABLE IN WATER AS MB UG/L	02/03/71-07/14/77	6	21	•
COLM0010	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/13/95-08/08/95	ŏ	2	
COLM0012	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/20/94-09/08/95	1	13	
COLM0013	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/27/92-09/27/95	3	5	
COLM0020	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/28/91-08/28/91	0	1	
COLM0021	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/08/95-08/08/95	0	1	
COLM0025	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/08/93-09/22/93	0	3	
COLM0029	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/28/91-09/22/93	2	3	
COLM0030 COLM0034	No	01145 01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/12/95-08/08/95	0	2 1	
COLM0034 COLM0035	No No	01145	SELENIUM, DISSOLVED (UG/L AS SE) SELENIUM, DISSOLVED (UG/L AS SE)	03/13/95-03/13/95 03/13/95-03/12/96	0	4	
COLM0039	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/28/91-08/18/93	1	3	
COLM0041	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/20/94-09/08/95	i	13	
COLM0010	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/08/95-08/08/95	0	1	
COLM0013	No	01147	SELENIUM, TOTAL (UG/L AS SE)	07/24/95-09/19/96	1	3	
COLM0021	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/08/95-08/08/95	0	1	
COLM0030	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/08/95-08/08/95	0	1	
COLM0035 COLM0046	No No	01147 01147	SELENIUM, TOTAL (UG/L AS SE) SELENIUM, TOTAL (UG/L AS SE)	08/08/95-08/08/95 02/20/68-12/04/78	0 10	1 48	T
COLM0010	No	01147	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/13/95-08/08/95	0	2	1
COLM0013	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/24/95-07/24/95	ő	1	
COLM0021	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/12/95-08/08/95	Õ		
COLM0030	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/12/95-03/12/96	0	2 3	
COLM0035	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/12/95-03/12/96	0	3	
COLM0013	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	05/21/75-04/07/77	1	20	
COLM0039	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	05/22/75-04/07/77	1	20	
COLM0046	No	01503	ALPHA, DISSOLVED	03/04/69-11/09/77	8 8	36	
COLM0046 COLM0046	No No	01504 03501	ALPHA, DISSOLVED, COUNTING ERROR BETA, TOTAL	03/04/69-11/09/77 04/12/78-04/12/78	0	36 1	
COLM0046	No	03503	BETA, DISSOLVED	03/04/69-09/06/77	8	15	
COLM0046	No	03504	BETA, DISSOLVED, COUNTING ERROR	03/04/69-09/06/77	8	15	
COLM0046	No	09503	RADIUM 226. DISSOLVED	07/24/69-04/01/74	4	7	
COLM0046	No	09504	RADIUM 226, DISSOLVED, COUNTING ERROR	07/24/69-04/01/74	4	7	
COLM0022	No	22703	URANIUM, NATURAL, DISSOLVED	08/13/77-08/13/77	0	1	
COLM0026	No	22703	URANIUM, NATURAL, DISSOLVED	08/13/77-08/13/77	0	1	
COLM0042	No	22703	URANIUM, NATURAL, DISSOLVED	08/18/77-08/18/77	0	1	
COLM0011 COLM0013	No No	28011 28011	URANIUM,NATURAL,TOTAL UG/L AS U URANIUM,NATURAL,TOTAL UG/L AS U	03/21/91-08/30/91 03/21/91-08/30/91	$0 \\ 0$	2	
COLM0013	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/21/91-08/28/91	0	2	
COLM0025	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/21/91-08/28/91	0	2 2 2 2 2 2 2	
COLM0027	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/21/91-08/28/91	0	2	
COLM0029	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/20/91-08/28/91	ŏ	$\bar{2}$	
COLM0039	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/20/91-08/28/91	0	2	
COLM0011	No	30282	METHIOCARB, WATER, WHOLE, RECOVERABLE, UG/L	06/25/91-06/25/91	0	1	
COLM0013	No	30282	METHIOCARB, WATER, WHOLE, RECOVERABLE, UG/L	06/25/91-06/25/91	0	1	
COLM0025	No	30282	METHICCARB, WATER, WHOLE, RECOVERABLE, UG/L	06/24/91-06/24/91	0	1	
COLM0029	No	30282	METHIOCARB, WATER, WHOLE, RECOVERABLE, UG/L	06/24/91-06/24/91	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

COLMODI No. 30282 METHOCARB, WATER, WHOLE, RECOVERABLE, LIGI. 0815991-082591 0 1	Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLMOIS NO 30296 PROPOXIR, WATER, WHOLE, RECOVERABLE, UGI. 662591-662591 0 1 COLMOIS NO 30296 PROPOXIR, WATER, WHOLE, RECOVERABLE, UGI. 662491-662491 0 1 COLMOIS NO 30296 PROPOXIR, WATER, WHOLE, RECOVERABLE, UGI. 662491-662491 0 1 COLMOIS NO 30296 PROPOXIR, WATER, WHOLE, RECOVERABLE, UGI. 662491-662491 0 1 COLMOIS NO 31505 PROPOXIR, WATER, WHOLE, RECOVERABLE, UGI. 662491-662491 0 1 COLMOIS NO 31505 PROPOXIR, WATER, WHOLE, RECOVERABLE, UGI. 662491-662491 0 1 COLMOIS NO 31505 PROPOXIR, WATER, WHOLE, RECOVERABLE, UGI. 662591-662591 0 1 COLMOIS NO 32500 PROPOXIR, WATER, WHOLE, WATER, WHOLE, WATER, WAT			30282				1	
COLMO025 NO 30296 PROPOSUR, WATER, WHOLE, RECOVERABLE, UGT. 60:2491-06							1	
COLMO029 No 30296 PROPONUR, WATER, WHOLE, RECOVERABLE, UGL COLMO040 No 30296 PROPONUR, WATER, WHOLE, RECOVERABLE, UGL COLMO040 No 30296 PROPONUR, WATER, WHOLE, RECOVERABLE, UGL COLMO040 No 30296 PROPONUR, WATER, WHOLE, RECOVERABLE, UGL COLMO041 No 30290 METHILLENS BULLE, CITUBE 3106 01988-0410278 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							1	
COLMO044 No. 312056 PROPOSUR, WATER, WHOLE, RECOVERABLE, UGI. 001591-081591 0 1 COLMO046 No. 31615 PRICAL COLIFORN, TOTO, MNYCLOR, PRICE 1535(5) 010906-8-016278 10 69 T COLMO046 No. 31615 PRICAL COLIFORN, TOTO, MNYCLOR, PRICE 1535(5) 010906-8-016278 10 68 T T COLMO046 No. 31615 PRICAL COLIFORN, MNYCL MEDIAL SCIPTURE 31613 010906-8-100278 10 68 T T COLMO047 No. 38912 CILLORPYRIPOS, TOTAL RECOVERABLE UGI. 062591-062591 0 1 COLMO025 No. 38912 CILLORPYRIPOS, TOTAL RECOVERABLE UGI. 062591-062591 0 1 COLMO025 No. 38912 CILLORPYRIPOS, TOTAL RECOVERABLE UGI. 062591-062591 0 1 COLMO025 No. 38912 CILLORPYRIPOS, TOTAL RECOVERABLE UGI. 062491-062491 0 1 COLMO025 No. 38912 CILLORPYRIPOS, TOTAL RECOVERABLE UGI. 062491-062491 0 1 COLMO025 No. 38912 CILLORPYRIPOS, TOTAL RECOVERABLE UGI. 062491-062491 0 1 COLMO025 No. 38912 CILLORPYRIPOS, TOTAL RECOVERABLE UGI. 062491-062491 0 1 COLMO025 No. 39911 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGI.) 062591-062591 0 1 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGI.) 062591-062591 0 1 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGI.) 062491-062491 0 1 COLMO025 No. 39911 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGI.) 062491-062491 0 1 COLMO025 No. 39911 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGI.) 062491-062491 0 1 COLMO025 No. 39911 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGI.) 062491-062491 0 1 COLMO025 No. 39902 PHORATE, FLAME PHOTOMETRIC WATER SAMPLE (UGI.) 062491-062491 0 1 COLMO025 No. 39902 PHORATE, FLAME DIOYOMETRIC WATER SAMPLE (UGI.) 062491-062491 0 1 COLMO025 No. 39902 PHORATE, FLAME DIOYOMETRIC WATER SAMPLE (UGI.) 062491-062491 0 1 COLMO025 No. 39902 PHORATE, FLAME DIOYOMETRIC WATER SAMPLE (UGI.) 062491-062491 0 1 COLMO025 No. 39903 PHORATE, FLAME DIOYOMETRIC WATER SAMPLE (UGI.) 062491-062491 0 1 COLMO025 No. 39903 PHORATE, FLAME DIOYOMETRIC WATER SAMPLE (UGI.) 062491-062491 0 1 COLMO025 No. 39903 PHORATE, FLAME DIOYOMETRIC WATER SAMPLE (UGI.) 062491-062491 0 1 COLMO025 No. 39904 S.S.S.FIBRUTY, PROSPROKOTERHIDOTAE WATER SAMPLE (UGI.) 062491-062491 0 1 COLMO025 No. 39904								
COLMO046 No 31615 COLFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31590) 01,199(8-04)1278 10 69 T COLMO046 No 31615 FECAL COLIROR, MNFN, C. MED, 45C (TUBE 31590) 01,199(8-04)1278 10 68 T COLMO046 No 31650 METHYLENE BLUE ACTIVES SUBST (DETERGENTS, ETC.) 04168-0590677 8 35 T COLMO047 No 3200 METHYLENE BLUE ACTIVES SUBST (DETERGENTS, ETC.) 04168-0590677 8 35 T COLMO047 No 3200 METHYLENE BLUE ACTIVES SUBST (DETERGENTS, ETC.) 04168-0590677 8 35 T COLMO047 No 3200 METHYLENE BLUE ACTIVES SUBST (DETERGENTS, ETC.) 04168-0590677 8 35 T COLMO047 No 3200 METHYLENE BLUE ACTIVES SUBST (DETERGENTS, ETC.) 04168-0590677 8 35 T COLMO047 No 3200 METHYLENE BLUE ACTIVES SUBST (DETERGENTS, ETC.) 04168-0590677 8 30 T COLMO047 No 3200 METHYLENE SUBST (DETERGENTS, ETC.) 04168-0590677 0 1 T COLMO047 No 3200 METHYLENE SUBST (DETERGENTS, ETC.) 04168-059067 0 1 T COLMO047 No 3200 METHYLENE SUBST (DETERGENTS, ETC.) 04168-0590 NO 3200 METHYLENE SUBST (DETERGENTS, ETC.) 04169-0590 NO 3200 NO 3200 METHYLENE SUBST (DETERGENTS, ETC.) 04169-0590 NO 3200 METHYLENE SUBST (DETERGENTS, ETC.) 04169-0590 NO 3200 METHYLENE SUBST (DETERMENTS, ETC.) 04169-05								
COLMO046 No. 31615 FECAL COLIFORM,MFN,EC MED.44.5C (TUBÉ 31614)								т
COLMO013 NO 38932 CHIORPYREDS, TOTAL RECOVERABLE UGL 062591-062599 0 1 1 COLMO014 NO 38932 CHIORPYREDS, TOTAL RECOVERABLE UGL 062591-062599 0 1 1 COLMO015 NO 38932 CHIORPYREDS, TOTAL RECOVERABLE UGL 062591-062599 0 1 1 COLMO017 NO 38932 CHIORPYREDS, TOTAL RECOVERABLE UGL 062591-062599 0 1 COLMO027 NO 38932 CHIORPYREDS, TOTAL RECOVERABLE UGL 062591-062599 0 1 COLMO018 NO 38932 CHIORPYREDS, TOTAL RECOVERABLE UGL 062591-062599 0 1 COLMO019 NO 39911 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UGL) 062591-062599 1 0 COLMO013 NO 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UGL) 062591-062599 1 0 COLMO013 NO 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UGL) 062591-062599 1 0 COLMO013 NO 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UGL) 062591-062599 1 0 COLMO013 NO 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UGL) 062591-062599 1 0 COLMO013 NO 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UGL) 062591-062599 1 0 COLMO013 NO 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UGL) 062591-062599 1 0 COLMO013 NO 39023 PHORATE, FLAME DOINGATION, WATER SAMPLE (UGL) 062591-062599 1 0 COLMO013 NO 39023 PHORATE, FLAME DOINGATION, WATER SAMPLE (UGL) 062591-062599 1 0 COLMO013 NO 39023 PHORATE, FLAME DOINGATION, WATER SAMPLE (UGL) 062591-062599 1 0 COLMO013 NO 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-PPD UGL 062591-062599 1 0 COLMO013 NO 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-PPD UGL 062591-062599 1 0 COLMO013 NO 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-PPD UGL 062591-062599 1 0 COLMO013 NO 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-PPD UGL 062591-062599 1 0 COLMO013 NO 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-PPD UGL 062591-062599 1 0 COLMO013 NO 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-PPD UGL 062591-062599 1 0 COLMO018 NO 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-PPD UGL 062591-062599 1 0 COLMO018 NO 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-PPD UGL 062591-062599 1 0 COLMO019 NO 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-PPD UGL 062								
COLMO013 No. 38932 CHILORPYRIPOS, TOTAL RECOVERABLE UGGL 062591-062599 0 1 COLMO025 No. 38932 CHILORPYRIPOS, TOTAL RECOVERABLE UGGL 062591-062599 0 1 COLMO025 No. 38932 CHILORPYRIPOS, TOTAL RECOVERABLE UGGL 062491-062499 0 1 COLMO018 No. 38932 CHILORPYRIPOS, TOTAL RECOVERABLE UGGL 062491-062499 0 1 COLMO018 No. 38932 CHILORPYRIPOS, TOTAL RECOVERABLE UGGL 062491-062499 0 1 COLMO018 No. 38931 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGL) 062591-062599 0 1 COLMO018 No. 39911 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGL) 062591-062599 0 1 COLMO025 No. 39911 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGL) 062491-062499 0 1 COLMO025 No. 39911 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGL) 062491-062499 0 1 COLMO025 No. 39911 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGL) 062491-062499 0 1 COLMO025 No. 39911 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGL) 062491-062499 0 1 COLMO025 No. 39902 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGL) 062491-062499 0 1 COLMO025 No. 39903 PHORATE, FLAME DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGL) 062491-062499 0 1 COLMO025 No. 39903 PHORATE, FLAME DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGL) 062599 0 1 COLMO025 No. 39903 PHORATE, FLAME DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGL) 062599 1 0 COLMO025 No. 39903 PHORATE, FLAME DISYSTON, WATER SAMPLE (UGL) 062491-062499 0 1 COLMO025 No. 39903 PHORATE, FLAME DISYSTON, WATER SAMPLE (UGL) 062491-062499 0 1 COLMO025 No. 39904 SS.S.FIRBUTYL PHOSPHOROTRITHIOTATE WITE-PD UGL 062591-062499 0 1 COLMO025 No. 39904 SS.S.FIRBUTYL PHOSPHOROTRITHIOTATE WITE-PD UGL 062591-062499 0 1 COLMO027 No. 39904 SS.S.FIRBUTYL PHOSPHOROTRITHIOTATE WITE-PD UGL 062591-062499 0 1 COLMO028 No. 39904 SS.S.FIRBUTYL PHOSPHOROTRITHIOTATE WITE-PD UGL 062591-062499 0 1 COLMO029 No. 39904 SS.S.FIRBUTYL PHOSPHOROTRITHIOTATE WITE-PD UGL 062591-062499 0 1 COLMO029 No. 39904 SS.S.FIRBUTYL PHOSPHOROTRITHIOTATE WITE-PD UGL 062591-062499 0 1 COLMO029 No. 39904 SS.S.FIRBUTYL PHOSPHOROTRITHIOTATE WITE-PD UGL 062591-062499 0 1 COLMO029 No. 39904 SS.S.FIRBUTYL PHOSPHOROTRITHIOT								•
COLM0025 No. 38932 CHLORPYRIPOS, TOTAL RECOVERABLE UGI. 062491-16024991 0 1 COLM0044 No. 38932 CHLORPYRIPOS, TOTAL RECOVERABLE UGI. 062491-16024991 0 1 COLM0044 No. 38932 CHLORPYRIPOS, TOTAL RECOVERABLE UGI. 062491-16024991 0 1 COLM0015 No. 39011 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGI.) 062591-0625991 0 1 COLM0025 No. 39011 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGI.) 062491-16624991 0 1 COLM0025 No. 39011 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGI.) 062491-16624991 0 1 COLM0014 No. 39011 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGI.) 062491-16624991 0 1 COLM0015 No. 39011 DISYSTON, FLAME PHOTOMETRIC WATER SAMPLE (UGI.) 062491-16624991 0 1 COLM0016 No. 39023 PHORATE ELAME HONGATON, WATER SAMPLE (UGI.) 062491-16624991 0 1 COLM0017 No. 39023 PHORATE ELAME HONGATON, WATER SAMPLE (UGI.) 062591-16625991 0 1 COLM0018 No. 39023 PHORATE ELAME HONGATON, WATER SAMPLE (UGI.) 062591-16625991 0 1 COLM0018 No. 39023 PHORATE ELAME HONGATON, WATER SAMPLE (UGI.) 062491-16624991 0 1 COLM0018 No. 39023 PHORATE ELAME HONGATON, WATER SAMPLE (UGI.) 062491-16624991 0 1 COLM0018 No. 39033 PHORATE ELAME HONGATON, WATER SAMPLE (UGI.) 062491-16624991 0 1 COLM0018 No. 39040 S.S.S-TRIBUTYL PHOSPHOROTRIHIOATE WTR-PPD UGI. 062491-16624991 0 1 COLM0018 No. 39040 S.S.S-TRIBUTYL PHOSPHOROTRIHIOATE WTR-PPD UGI. 0625991-16625991 0 1 COLM0018 No. 39040 S.S.S-TRIBUTYL PHOSPHOROTRIHIOATE WTR-PPD UGI. 0625991-16625991 0 1 COLM0018 No. 39040 S.S.S-TRIBUTYL PHOSPHOROTRIHIOATE WTR-PPD UGI. 0625991-16625991 0 1 COLM0018 No. 39040 S.S.S-TRIBUTYL PHOSPHOROTRIHIOATE WTR-PPD UGI. 0625991-16625991 0 1 COLM0018 No. 39040 S.S.S-TRIBUTYL PHOSPHOROTRIHIOATE WTR-PPD UGI. 0625991-16625991 0 1 COLM0018 No. 39040 S.S.S-TRIBUTYL PHOSPHOROTRIHIOATE WTR-PPD UGI. 0625991-16625991 0 1 COLM0018 No. 39051 METHOMYL N. WHOLE WATER (UGI.) 0625991-16625991 0 1 COLM0018 No. 39051 METHOMYL N. WHOLE WATER (UGI.) 0625991-16625991 0 1 COLM0018 No. 39051 METHOMYL N. WHOLE WATER SAMPLE (UGI.) 0625991-16625991 0 1 COLM0018 No. 39050 METHOMYL N. WHOLE WATER SAMPLE (UGI.) 0								
COLMO029 No 389322 CHILORPYRIFOS, TOTAL RECOVERABLE UGT. 081591-081591 0 1 COLMO011 No 38932 CHILORPYRIFOS, TOTAL RECOVERABLE UGT. 081591-081591 0 1 COLMO011 No 39011 DISYSTON, ELAME HOTOMETRIC, WATER SAMPLE UGCL. 062291-0622591 0 1 COLMO025 No 39011 DISYSTON, ELAME HOTOMETRIC, WATER SAMPLE UGCL. 062291-0622591 0 1 COLMO027 No 39011 DISYSTON, ELAME HOTOMETRIC, WATER SAMPLE UGCL. 082291-0622591 0 1 COLMO028 No 39011 DISYSTON, ELAME HOTOMETRIC, WATER SAMPLE UGCL. 081291-062391 0 1 COLMO018 No 39011 DISYSTON, ELAME HOTOMETRIC, WATER SAMPLE UGCL. 081291-062391 0 1 COLMO018 No 39023 PHORATE, FLAME HONDATON, WATER SAMPLE UGCL. 081291-062391 0 1 COLMO018 No 39023 PHORATE, FLAME HONDATON, WATER SAMPLE UGCL. 08291-062591 0 1 COLMO018 No 39023 PHORATE, FLAME HONDATON, WATER SAMPLE UGCL. 08291-062591 0 1 COLMO018 No 39023 PHORATE, FLAME HONDATON, WATER SAMPLE UGCL. 08291-062591 0 1 COLMO018 No 39023 PHORATE, FLAME HONDATON, WATER SAMPLE UGCL. 08291-062591 0 1 COLMO018 No 39040 S. S.S.TRIBUTY. PHOSPHOROTRITHIOATE WTR-FPD UGCL. 08291-082591 0 1 COLMO018 No 39040 S. S.S.TRIBUTY. PHOSPHOROTRITHIOATE WTR-FPD UGCL. 08291-082591 0 1 COLMO018 No 39040 S. S.S.TRIBUTY. PHOSPHOROTRITHIOATE WTR-FPD UGCL. 08291-062591 0 1 COLMO018 No 39040 S. S.S.TRIBUTY. PHOSPHOROTRITHIOATE WTR-FPD UGCL. 08291-062591 0 1 COLMO018 No 39040 S. S.S.TRIBUTY. PHOSPHOROTRITHIOATE WTR-FPD UGCL. 08291-062591 0 1 COLMO018 No 39040 S. S.S.TRIBUTY. PHOSPHOROTRITHIOATE WTR-FPD UGCL. 08291-062591 0 1 COLMO018 No 39040 S. S.S.TRIBUTY. PHOSPHOROTRITHIOATE WTR-FPD UGCL. 08291-062591 0 1 COLMO018 No 39041 METHOMYL. WHOLE WATER (UGCL) 08291-062491 0 1 COLMO018 No 39051 METHOMYL. WHOLE WATER (UGCL) 08291-062491 0 1 COLMO018 No 39051 METHOMYL. WHOLE WATER (UGCL) 08291-062491 0 1 COLMO019 No 39051 METHOMYL. WHOLE WATER (UGCL) 08291-062491 0 1 COLMO019 No 39051 METHOMYL. WHOLE WATER (UGCL) 08291-062491 0 1 COLMO019 No 39051 METHOMYL. WHOLE WATER SAMPLE (UGCL) 062491-062491 0 1 COLMO019 No 39051 METHOMYL. WHOLE WATER SAMPLE (UGCL) 062491-062491 0 1 COLMO019 No 39050 DEMETO		No						
COLMO013 No 39011 DISYSTON, FLAME HOTOMETRIC, WATER SAMPLE (UGL) 06239-1062599 0 1 COLMO013 No 39011 DISYSTON, FLAME HOTOMETRIC, WATER SAMPLE (UGL) 06239-1062599 0 1 COLMO013 No 39011 DISYSTON, FLAME HOTOMETRIC, WATER SAMPLE (UGL) 06249-1062499 0 1 COLMO014 No 39011 DISYSTON, FLAME HOTOMETRIC, WATER SAMPLE (UGL) 06249-1062499 0 1 COLMO015 No 39011 DISYSTON, FLAME HOTOMETRIC, WATER SAMPLE (UGL) 087159-10871599 0 1 COLMO016 No 39023 PIORATE, FLAME HOTOMETRIC, WATER SAMPLE (UGL) 087159-10871599 0 1 COLMO017 No 39023 PIORATE, FLAME HONZATION, WATER SAMPLE (UGL) 087159-10871599 0 1 COLMO018 No 39023 PIORATE, FLAME HONZATION, WATER SAMPLE (UGL) 087259-1062599 0 1 COLMO029 No 39023 PIORATE, FLAME HONZATION, WATER SAMPLE (UGL) 06249-1062499 0 1 COLMO029 No 39023 PIORATE, FLAME HONZATION, WATER SAMPLE (UGL) 06249-1062499 0 1 COLMO029 No 39023 PIORATE, FLAME HONZATION, WATER SAMPLE (UGL) 06249-1062499 0 1 COLMO029 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITION, WATER SAMPLE (UGL) 06249-1062499 0 1 COLMO029 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITION WATER SAMPLE (UGL) 06249-1062499 0 1 COLMO029 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITION WATER SAMPLE (UGL) 06249-1062499 0 1 COLMO029 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITIHOATE WTR-PPD UGL 06249-1062499 0 1 COLMO018 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITHIOATE WTR-PPD UGL 06249-1062499 0 1 COLMO019 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITHIOATE WTR-PPD UGL 06249-1062499 0 1 COLMO019 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITHIOATE WTR-PPD UGL 06249-1062499 0 1 COLMO019 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITHIOATE WTR-PPD UGL 06249-1062499 0 1 COLMO019 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITHIOATE WTR-PPD UGL 06249-1062499 0 1 COLMO019 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITHIOATE WTR-PPD UGL 06249-1062499 0 1 COLMO019 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITHIOATE WTR-PPD UGL 06249-1062499 0 1 COLMO019 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITHIOATE WTR-PPD UGL 06249-1062499 0 1 COLMO019 No 39040 S.S.S.TRIBUTYL PHOSPHOROTERITHIOATE WTR-PPD UGL 06249-1062499 0 1 COLMO019 NO 39040 S.S.S.TRIBUTYL							-	
COLMO015 No 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UGT) 06/2591-06/2591 0 1							-	
COLMO025 No 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (GGL) (06249-106249) 0 1 COLMO024 No 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (GGL) (06249-106249) 0 1 COLMO024 No 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (GGL) (06249-106249) 0 1 COLMO024 No 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (GGL) (06249-106249) 0 1 COLMO025 No 39023 PHORATE, FLAME HONIZATION, WATER SAMPLE (GGL) (06259-106259) 0 1 COLMO025 No 39023 PHORATE, FLAME HONIZATION, WATER SAMPLE (GGL) (06259-106259) 0 1 COLMO025 No 39023 PHORATE, FLAME HONIZATION, WATER SAMPLE (GGL) (06249-106249) 0 1 COLMO025 No 39023 PHORATE, FLAME HONIZATION, WATER SAMPLE (GGL) (06259-106259) 0 1 COLMO025 No 39023 PHORATE, FLAME HONIZATION, WATER SAMPLE (GGL) (06259-106259) 0 1 COLMO025 No 39040 S.S.S-TRIBUTY, PHOSPHOROTRITHIOATE WTR-PPD UGL (06259-106259) 0 1 COLMO025 No 39040 S.S.S-TRIBUTY, PHOSPHOROTRITHIOATE WTR-PPD UGL (06249-106249) 0 1 COLMO025 No 39040 S.S.S-TRIBUTY, PHOSPHOROTRITHIOATE WTR-PPD UGL (06249-106249) 0 1 COLMO025 No 39040 S.S.S-TRIBUTY, PHOSPHOROTRITHIOATE WTR-PPD UGL (06249-106249) 0 1 COLMO025 No 39040 S.S.S-TRIBUTY, PHOSPHOROTRITHIOATE WTR-PPD UGL (06249-106249) 0 1 COLMO025 No 39040 S.S.S-TRIBUTY, PHOSPHOROTRITHIOATE WTR-PPD UGL (06249-106249) 0 1 COLMO025 No 39040 S.S.S-TRIBUTY, PHOSPHOROTRITHIOATE WTR-PPD UGL (06249-106249) 0 1 COLMO024 No 39040 S.S.S-TRIBUTY, PHOSPHOROTRITHIOATE WTR-PPD UGL (06249-106249) 0 1 COLMO024 No 39040 S.S.S-TRIBUTY, PHOSPHOROTRITHIOATE WTR-PPD UGL (06249-106249) 0 1 COLMO024 No 39040 S.S.S-TRIBUTY, PHOSPHOROTRITHIOATE WTR-PPD UGL (06249-106249) 0 1 COLMO024 No 39040 S.S.S-TRIBUTY, PHOSPHOROTRITHIOATE WTR-PPD UGL (06249-106249) 0 1 COLMO024 No 39040 S.S.S-TRIBUTY, PHOSPHOROTRITHIOATE WTR-PPD UGL (06249-106249) 0 1 COLMO024 No 39051 METHOMYL NWHOLE WATER (GGL) (06249-106249) 0 1 COLMO024 No 39051 METHOMYL NWHOLE WATER (GGL) (06249-106249) 0 1 COLMO024 No 39051 METHOMYL NWHOLE WATER (GGL) (06249-106249) 0 1 COLMO024 No 39051 METHOMYL NWHOLE WATER (GGL) (06249-106249) 0 1 COLMO025 No 39051 METHO							-	
COLM0025 No 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UGT) O62491-062491 O O							_	
COLM0024 No 39011 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UGL) 06(249)-06(249) 0 1 1 1 1 1 1 1 1 1							1	
COLM0011 No 39012 DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UGT.) 062591-062591 0 1 COLM0013 No 39023 PHORATE, FLAME IONIZATION, WATER SAMPLE (UGT.) 062591-062591 0 1 COLM0025 No 39023 PHORATE, FLAME IONIZATION, WATER SAMPLE (UGT.) 062591-062591 0 1 COLM0025 No 39023 PHORATE, FLAME IONIZATION, WATER SAMPLE (UGT.) 062691-062491 0 1 COLM0026 No 39023 PHORATE, FLAME IONIZATION, WATER SAMPLE (UGT.) 062691-062491 0 1 COLM0026 No 39023 PHORATE, FLAME IONIZATION, WATER SAMPLE (UGT.) 062691-062491 0 1 COLM0026 No 39023 PHORATE, FLAME IONIZATION, WATER SAMPLE (UGT.) 062691-062491 0 1 COLM0027 No 39040 S.S.S.TRIBUTY, PHOSPHOROTER, WATER SAMPLE (UGT.) 062591-062591 0 1 COLM0027 No 39040 S.S.S.TRIBUTY, PHOSPHOROTER, WATER SAMPLE (UGT.) 062591-0622491 0 1 COLM0029 No 39040 S.S.S.TRIBUTY, PHOSPHOROTER, WATER SAMPLE (UGT.) 062591-0622491 0 1 COLM0029 No 39040 S.S.S.TRIBUTY, PHOSPHOROTER, WATER SAMPLE (UGT.) 062591-0622491 0 1 COLM0028 No 39040 S.S.S.TRIBUTY, PHOSPHOROTER, WATER WATER WATER (UGT.) 062591-0622491 0 1 COLM0028 NO 39051 METHOMYL IN WHOLE WATER (UGT.) 062591-062591 0 1 COLM0028 NO 39051 METHOMYL IN WHOLE WATER (UGT.) 062591-062591 0 1 COLM0028 NO 39051 METHOMYL IN WHOLE WATER (UGT.) 062591-062591 0 1 COLM0028 NO 39051 METHOMYL IN WHOLE WATER (UGT.) 062691-062491 0 1 COLM0028 NO 39051 METHOMYL IN WHOLE WATER (UGT.) 062691-062491 0 1 COLM0028 NO 39051 METHOMYL IN WHOLE WATER (UGT.) 062691-062491 0 1 COLM0028 NO 39051 METHOMYL IN WHOLE WATER (UGT.) 062691-062491 0 1 COLM0028 NO 39051 METHOMYL IN WHOLE WATER (UGT.) 062691-062491 0 1 COLM0028 NO 39053 METHOMYL IN WHOLE WATER (UGT.) 062691-062491 0 1 COLM0028 NO 39053 METHOMYL IN WHOLE WATER SAMPLE (UGT.) 062691-062491 0 1 COLM0028 NO 39058 ETHION IN WHOLE WATER SAMPLE (UGT.) 062691-062491 0 1 COLM0028 NO 39058 ETHION IN WHOLE WATER SAMPLE (UGT.) 062691-062491 0 1 COLM0028 NO 39058 ETHION IN WHOLE WATER SAMPLE (UGT.) 062691-062491 0 1 COLM0028 NO 39058 MALATHION IN WHOLE WATER SAMPLE (UGT.) 062691-062491 0 1 COLM0028 NO 39058 MALATHION IN WHOLE WATER SAMPLE (UGT.) 0626							i	
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COLM0025 No 39023 PHORATE, FLAME IONIZATION, WATER SAMPLE (UGL)	COLM0011							
COLMO029 No 39023 PHORATE, FLAME IONIZATION, WATER SAMPLE (UGT.) (06249)-106249) 0 1 COLMO014 No 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UGT. (06259)-106259) 0 1 COLMO015 No 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UGT. (06259)-106259) 0 1 COLMO025 No 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UGT. (06249)-106249) 0 1 COLMO029 No 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UGT. (06249)-106249) 0 1 COLMO029 No 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UGT. (06249)-106249) 0 1 COLMO021 No 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UGT. (06249)-106249) 0 1 COLMO018 No 39040 S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UGT. (06249)-106249) 0 1 COLMO018 No 39040 METHOMYL IN WHOLE WATER (UGL.) (06259)-106259) 0 1 COLMO018 No 39040 METHOMYL IN WHOLE WATER (UGL.) (06259)-106259) 0 1 COLMO018 No 39051 METHOMYL IN WHOLE WATER (UGL.) (06259)-106259) 0 1 COLMO018 No 39051 METHOMYL IN WHOLE WATER (UGL.) (06259)-106259) 0 1 COLMO018 No 39051 METHOMYL IN WHOLE WATER (UGL.) (06259)-106259) 0 1 COLMO018 No 39051 METHOMYL IN WHOLE WATER (UGL.) (06259)-106259) 0 1 COLMO018 No 39051 METHOMYL IN WHOLE WATER (UGL.) (06259)-106259) 0 1 COLMO018 No 39051 METHOMYL IN WHOLE WATER (UGL.) (06259)-106259) 0 1 COLMO018 No 39058 ETHION IN WHOLE WATER SAMPLE (UGL.) (06259)-106259) 0 1 COLMO018 No 39058 ETHION IN WHOLE WATER SAMPLE (UGL.) (06259)-106259) 0 1 COLMO025 No 39058 ETHION IN WHOLE WATER SAMPLE (UGL.) (06249)-106249) 0 1 COLMO018 No 39058 ETHION IN WHOLE WATER SAMPLE (UGL.) (06249)-106249) 0 1 COLMO018 No 39058 ETHION IN WHOLE WATER SAMPLE (UGL.) (06249)-106249) 0 1 COLMO018 No 39050 MALATHION IN WHOLE WATER SAMPLE (UGL.) (06249)-106249) 0 1 COLMO018 No 39050 MALATHION IN WHOLE WATER SAMPLE (UGL.) (06249)-106249) 0 1 COLMO018 No 3950 MALATHION IN WHOLE WATER SAMPLE (UGL.) (06249)-106249) 0 1 COLMO018 No 3950 MALATHION IN WHOLE WATER SAMPLE (UGL.) (06259)-106259) 0 1 COLMO018 No 3950 MALATHION IN WHOLE WATER SAMPLE (UGL.) (06259)-106259) 0 1 COLMO018 No 3950 MALATHION IN WHOLE WATER SAMPLE (UGL.)							1	
COLM0011 No 39040 S.S.S-TRIBUTYL PIOSPIIORATE, TEAM ENDIZATION, WATER SAMPLE (UGT.) COLM0013 No 39040 S.S.S-TRIBUTYL PIOSPIIOROTERTHIOATE WITE-PPD UGT. COLM0025 No 39040 S.S.S-TRIBUTYL PIOSPIIOROTERTHIOATE WITE-PPD UGT. COLM0027 No 39040 S.S.S-TRIBUTYL PIOSPIIOROTERTHIOATE WITE-PPD UGT. COLM0028 No 39040 S.S.S-TRIBUTYL PIOSPIIOROTERTHIOATE WITE-PPD UGT. COLM0014 No 39040 S.S.S-TRIBUTYL PIOSPIIOROTERTHIOATE WITE-PPD UGT. COLM0014 No 39040 S.S.S-TRIBUTYL PIOSPIIOROTERTHIOATE WITE-PPD UGT. COLM0018 No 39051 METHOMYL IN WHOLE WATER (UGT.) COLM0018 No 39051 METHOMYL IN WHOLE WATER (UGT.) COLM0018 No 39051 METHOMYL IN WHOLE WATER (UGT.) COLM0025 No 39051 METHOMYL IN WHOLE WATER (UGT.) COLM0026 No 39051 METHOMYL IN WHOLE WATER (UGT.) COLM0044 No 39052 PROPHAM IN WHOLE WATER (UGT.) COLM0018 No 3938 ETHION IN WHOLE WATER (UGT.) COLM0019 No 39398 ETHION IN WHOLE WATER (UGT.) COLM0010 No 39398 ETHION IN WHOLE WATER SAMPLE (UGT.) COLM0010 No 39398 ETHION IN WHOLE WATER SAMPLE (UGT.) COLM0010 No 39398 ETHION IN WHOLE WATER SAMPLE (UGT.) COLM0010 No 39398 ETHION IN WHOLE WATER SAMPLE (UGT.) COLM0010 No 39390 MALATHION IN WHOLE WATER SAMPLE (UGT.) COLM0010 No 39390 MALATHION IN WHOLE WATER SAMPLE (UGT.) COLM0010 No 39390 MALATHION IN WHOLE WATER SAMPLE (UGT.) COLM0010 No 39390 MALATHION IN WHOLE WATER SAMPLE (UGT.) COLM0011 No 3950 MALATHION IN WHOLE WATER SAMPLE (UGT.) COLM0014 No 3950 MALATHION IN WHOLE WATER SAMPLE (UGT.) COLM0015 NO 3950 MALATHION IN WHOLE WATER SAMPLE (UGT.) COLM0010 No 3950 MALATHION IN WHOLE WATER SAMPLE (UGT.) COLM0010 NO 3950 DEMETON IN WHOLE WATER SAMPLE (UGT.) COLM0010 NO 3950 DEMETON I							l	
COLMO013 No 39040 S.S.S.TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L 06/25/91-06/25/91 0 1 COLMO025 No 39040 S.S.S.TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L 06/24/91-06/24/91 0 1 COLMO025 No 39040 S.S.S.TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L 06/24/91-06/24/91 0 1 COLMO025 No 39040 S.S.S.TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L 06/24/91-06/24/91 0 1 COLMO018 No 39040 S.S.S.TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L 06/24/91-06/24/91 0 1 COLMO018 No 39040 S.S.S.TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L 06/25/91-06/25/91 0 1 COLMO018 No 39051 METHOMYL IN WHOLE WATER (UG/L) 06/25/91-06/25/91 0 1 COLMO018 No 39051 METHOMYL IN WHOLE WATER (UG/L) 06/25/91-06/25/91 0 1 COLMO018 No 39051 METHOMYL IN WHOLE WATER (UG/L) 06/24/91-06/24/91 0 1 COLMO014 No 39051 METHOMYL IN WHOLE WATER (UG/L) 06/24/91-06/24/91 0 1 COLMO014 No 39052 METHOMYL IN WHOLE WATER (UG/L) 06/24/91-06/24/91 0 1 COLMO014 No 39052 ETHION IN WHOLE WATER SAMPLE (UG/L) 08/15/91-08/15/91 0 1 COLMO018 No 39938 ETHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLMO018 No 39398 ETHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLMO018 No 39398 ETHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLMO018 No 39398 ETHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLMO018 No 39398 ETHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLMO018 No 39330 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLMO018 No 39330 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLMO018 No 39330 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLMO018 No 39330 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLMO018 No 39330 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLMO018 No 39330 MALATHION IN WHOLE WATER SAMPLE							-	
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COLM0025 No 39040 S.S.S.TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L 06/2491-06/24/91 0 1 COLM00014 No 39040 S.S.S.TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L 08/15/91-08/15/91 0 1 COLM0011 No 39051 METHOMYL IN WHOLE WATER (UG/L) 06/25/91-06/25/91 0 1 COLM0013 No 39051 METHOMYL IN WHOLE WATER (UG/L) 06/25/91-06/25/91 0 1 COLM0025 No 39051 METHOMYL IN WHOLE WATER (UG/L) 06/24/91-06/24/91 0 1 COLM0024 No 39051 METHOMYL IN WHOLE WATER (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39051 METHOMYL IN WHOLE WATER (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39051 METHOMYL IN WHOLE WATER (UG/L) 08/15/91-08/15/91 0 1 COLM0044 No 39052 METHOMYL IN WHOLE WATER (UG/L) 08/15/91-08/15/91 0 1 COLM0013 No 39058 ETHION IN WHOLE WATER SAMPLE (UG/L) 08/15/91-08/15/91 0 1 COLM0014 No 39052 STHIND IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0014 No 39398 ETHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0044 No 39398 ETHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39398 ETHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39398 ETHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39330 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39530 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0044 No 39530 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0044 No 39530 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0044 No 39530 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0044 No 39530 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0044 No 39530 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0044 No 39530 MALATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM004							-	
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COLM0011 No						0	1	
COLM0013	COLM0044	No		S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L			_	
COLM0025							_	
COLM0029 No 39051 METHOMYL IN WHOLE WATER (UGL) 06/24/91-06/24/91 0 1 COLM0044 No 39051 METHOMYL IN WHOLE WATER (UGL) 08/15/91-08/15/99 0 1 COLM0011 No 39052 PROPILAM IN WHOLE WATER (UGL) 06/25/91-06/25/91 0 1 COLM0013 No 39398 ETHION IN WHOLE WATER SAMPLE (UGL) 06/23/91-06/25/91 0 1 COLM0025 No 39398 ETHION IN WHOLE WATER SAMPLE (UGL) 06/24/91-06/24/91 0 1 COLM0029 No 39398 ETHION IN WHOLE WATER SAMPLE (UGL) 06/24/91-06/24/91 0 1 COLM0011 No 39398 ETHION IN WHOLE WATER SAMPLE (UGL) 06/23/91-06/24/91 0 1 COLM0011 No 39530 MALATHION IN WHOLE WATER SAMPLE (UGL) 06/25/91-06/25/91 0 1 COLM0013 No 39530 MALATHION IN WHOLE WATER SAMPLE (UGL) 06/24/91-06/24/91 0 1 COLM0029 No 39530 MALATHION IN WHOLE WATER SAMPLE (UGL)							-	
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COLM0025 No 39580 GUTHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0029 No 39580 GUTHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39580 GUTHION IN WHOLE WATER SAMPLE (UG/L) 08/15/91-08/15/91 0 1 COLM0011 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0013 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0025 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0029 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 08/15/91-08/15/91 0 1 COLM0011 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0013 No <td< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td>i</td><td></td></td<>						-	i	
COLM0044 No 39580 GUTHION IN WHOLE WATER SAMPLE (UG/L) 08/15/91-08/15/91 0 1 COLM0011 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0013 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0025 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0029 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 08/15/91-08/15/91 0 1 COLM0011 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0013 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1						0	1	
COLM0011 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0013 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0025 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0029 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 08/15/91-08/15/91 0 1 COLM0011 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0013 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1			39580				1	
COLM0013 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0025 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0029 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 08/15/91-08/15/91 0 1 COLM0011 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0013 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1							1	
COLM0025 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0029 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 08/15/91-08/15/91 0 1 COLM0011 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0013 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1							1	
COLM0029 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1 COLM0044 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 08/15/91-08/15/91 0 1 COLM0011 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0013 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1							1 1	
COLM0044 No 39600 METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L) 08/15/91-08/15/91 0 1 COLM0011 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0013 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1							1	
COLM0011 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1 COLM0013 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/25/91-06/25/91 0 1						-	1	
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COLM0025 No 39750 SEVIN IN WHOLE WATER SAMPLE (UG/L) 06/24/91-06/24/91 0 1								
	COLM0025	No	39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLM0029	No	39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	0	1	11010
COLM0044	No	39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	08/15/91-08/15/91	0	1	
COLM0011	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	0	1	
COLM0013	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	0	1	
COLM0025	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	0	1	
COLM0029 COLM0044	No No	39786 39786	TRITHION IN WHOLE WATER SAMPLE (UG/L) TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91 08/15/91-08/15/91	$0 \\ 0$	1	
COLM0044 COLM0011	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	0	1	
COLM0011	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	0	1	
COLM0025	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	ŏ	i	
COLM0029	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	0	1	
COLM0044	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	08/15/91-08/15/91	0	1	
COLM0011	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/91-08/30/91	0	2	
COLM0012	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	07/20/94-04/17/95	0	8	
COLM0013 COLM0020	No No	70300 70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/21/91-07/15/92 03/21/91-08/28/91	1	2	
COLM0025	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/91-08/28/91	0	2 8 5 2 2 2 2 2 2 8	
COLM0027	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/21/91-08/28/91	0	2	
COLM0029	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/20/91-08/28/91	ő	2	
COLM0039	No	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/20/91-08/28/91	Õ	$\overline{2}$	
COLM0041	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/20/94-04/18/95	0		
COLM0046	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/09/68-12/04/78	10	63	
COLM0001	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/31/77-08/31/77	0	1	
COLM0002	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/31/77-08/31/77	0	1	
COLM0003 COLM0004	No	70301 70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/16/77-08/16/77 08/15/77-08/15/77	$0 \\ 0$	1 1	
COLM0004 COLM0013	No No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L) SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/07/73-07/06/77	3	27	
COLM0013	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/16/77-09/20/77	0	2	
COLM0037	No	70301	SOLIDS, DISSOLVED SUM OF CONSTITUENTS (MG/L)	11/29/78-11/29/78	ő	ī	
COLM0039	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/07/73-08/21/80	7	40	
COLM0044	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/30/78-11/30/78	0	1	
COLM0004	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/15/77-08/15/77	0	1	
COLM0013	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/27/73-07/06/77	3	27	
COLM0023	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/16/77-08/16/77	0	1	
COLM0039 COLM0001	No No	70302 70303	SOLIDS, DISSOLVED-TONS PER DAY SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/07/73-08/21/80 08/31/77-08/31/77	7 0	40 1	
COLM0001 COLM0002	No	70303	SOLIDS, DISSOLVED-TONS FER ACRE-FT	08/31/77-08/31/77	0	1	
COLM0003	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/16/77-08/16/77	ő	i	
COLM0004	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/15/77-08/15/77	0	1	
COLM0013	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/07/73-07/06/77	3	28	
COLM0023	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/16/77-09/20/77	0	2	
COLM0037	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/29/78-11/29/78	0	1	
COLM0039	No	70303	SOLIDS, DISSOLVED TONS PER ACRE-FT	08/07/73-08/21/80	7 0	40 1	
COLM0044 COLM0005	No No	70303 70507	SOLIDS, DISSOLVED-TONS PER ACRE-FT PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/30/78-11/30/78 11/09/76-11/10/76	0	9	
COLM0003	No	70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/09/76-11/10/76	0	9	
COLM0008	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/09/76-11/10/76	ő	10	
COLM0009	No	70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/09/76-11/10/76	Õ	9	
COLM0018	No	70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/09/76-11/11/76	0	9	
COLM0043	No	70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/10/76-11/11/76	0	9	
COLM0005	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	11/09/76-11/10/76	0	9	
COLM0007	No No	71887 71887	NITROGEN, TOTAL, AS NO3 - MG/L NITROGEN, TOTAL, AS NO3 - MG/L	11/09/76-11/10/76 11/09/76-11/10/76	0	9 10	
COLM0008 COLM0009	No	71887	NITROGEN, TOTAL, AS NO3 - MO/L NITROGEN, TOTAL, AS NO3 - MG/L	11/09/76-11/10/76	0	9	
COLM0018	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	11/09/76-11/11/76	0	ý	
COLM0043	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	11/10/76-11/11/76	ŏ	9	
COLM0011	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/21/91-08/30/91	0	2	
COLM0013	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/21/91-08/30/91	0	2 2 2 2	
COLM0020	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/21/91-08/28/91	0	2	
COLM0025	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/21/91-08/28/91	0	2	
COLM0027	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/21/91-08/28/91	0		
COLM0029 COLM0039	No No	71890 71890	MERCURY, DISSOLVED (UG/L AS HG) MERCURY, DISSOLVED (UG/L AS HG)	03/20/91-08/28/91 03/20/91-08/28/91	0	2 2	
COLM0039	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/15/70-10/15/70	0	1	
COLM0011	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/21/91-08/30/91	0		
COLM0013	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/21/91-08/30/91	ŏ	2 2 2 2 2	
COLM0020	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/21/91-08/28/91	0	2	
COLM0025	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/21/91-08/28/91	0	2	
COLM0027	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/21/91-08/28/91	0	2	
COLM0029	No No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/20/91-08/28/91	0	2 2	
COLM0039 COLM0011	No No	75993 77441	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L 1-NAPHTHOL WHOLE WATER,UG/L	03/20/91-08/28/91 06/25/91-06/25/91	0	1	
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T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLM0013	No	77441	1-NAPHTHOL WHOLE WATER,UG/L	06/25/91-06/25/91	0	1	
COLM0025	No	77441	1-NAPHTHOL WHOLE WATER,UG/L	06/24/91-06/24/91	0	1	
COLM0029	No	77441	1-NAPHTHOL WHOLE WATER,UG/L	06/24/91-06/24/91	0	1	
COLM0044	No	77441	1-NAPHTHOL WHOLE WATER, UG/L	08/15/91-08/15/91	0	1	
COLM0011	No No	82088 82088	TERBUFOS (COUNTER) TOTAL WHOLE WATER,UG/L TERBUFOS (COUNTER) TOTAL WHOLE WATER,UG/L	06/25/91-06/25/91	0	1	
COLM0013 COLM0025	No	82088	TERBUFOS (COUNTER) TOTAL WHOLE WATER,UG/L	06/25/91-06/25/91 06/24/91-06/24/91	0	1	
COLM0029	No	82088	TERBUFOS (COUNTER) TOTAL WHOLE WATER, UG/L	06/24/91-06/24/91	0	1	
COLM0044	No	82088	TERBUFOS (COUNTER) TOTAL WHOLE WATER,UG/L	08/15/91-08/15/91	Ö	1	
COLM0010	No	82398	SAMPLING METHOD (CODES)	03/14/95-08/08/95	0	4	
COLM0011	No	82398	SAMPLING METHOD (CODES)	03/21/91-02/06/92	0	3	
COLM0012	No	82398	SAMPLING METHOD (CODES)	07/20/94-09/08/95	1	13	
COLM0013	No	82398	SAMPLING METHOD (CODES)	03/21/91-03/10/97	5 0	31	
COLM0015 COLM0016	No No	82398 82398	SAMPLING METHOD (CODES) SAMPLING METHOD (CODES)	02/06/92-02/06/92 02/06/92-02/06/92	0	1 1	
COLM0020	No	82398	SAMPLING METHOD (CODES)	03/21/91-02/06/92	0		
COLM0021	No	82398	SAMPLING METHOD (CODES)	06/12/95-08/08/95	Ö	3 2 6	
COLM0025	No	82398	SAMPLING METHOD (CODES)	03/21/91-09/22/93	2	6	
COLM0027	No	82398	SAMPLING METHOD (CODES)	03/21/91-02/03/92	0	3	
COLM0029	No	82398	SAMPLING METHOD (CODES)	03/20/91-09/22/93	2	6	
COLM0030	No	82398	SAMPLING METHOD (CODES)	03/14/95-03/12/96	0	4 1	
COLM0034 COLM0035	No No	82398 82398	SAMPLING METHOD (CODES) SAMPLING METHOD (CODES)	03/13/95-03/13/95 03/13/95-03/12/96	0	4	
COLM0033	No	82398	SAMPLING METHOD (CODES)	03/20/91-09/22/93	2	7	
COLM0041	No	82398	SAMPLING METHOD (CODES)	10/03/94-09/08/95	0	12	
COLM0044	No	82398	SAMPLING METHOD (CODES)	08/15/91-08/15/91	0	1	
COLM0011	No	82584	3-HYDROXY CARBOFURAN, WATER, TOTAL RECOVERABLE, UG/L	06/25/91-06/25/91	0	1	
COLM0013	No	82584	3-HYDROXY CARBOFURAN, WATER, TOTAL RECOVERABLE, UG/L	06/25/91-06/25/91	0	1	
COLM0025	No	82584	3-HYDROXY CARBOFURAN, WATER, TOTAL RECOVERABLE, UG/L	06/24/91-06/24/91	0	1	
COLM0029 COLM0044	No No	82584 82584	3-HYDROXY CARBOFURAN, WATER, TOTAL RECOVERABLE, UG/L 3-HYDROXY CARBOFURAN, WATER, TOTAL RECOVERABLE, UG/L	06/24/91-06/24/91 08/15/91-08/15/91	0	1 1	
COLM0044 COLM0011	No	82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	0	1	
COLM0011	No	82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	ő	i	
COLM0025	No	82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	0	1	
COLM0029	No	82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	0	1	
COLM0044	No	82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE UG/L	08/15/91-08/15/91	0	1	
COLM0011	No	82587	ALDICARB SULFONE, WH WATER, TOTAL RECOVERABLE, UG/L	06/25/91-06/25/91	0	1 1	
COLM0013 COLM0025	No No	82587 82587	ALDICARB SULFONE, WH WATER, TOTAL RECOVERABLE, UG/L ALDICARB SULFONE, WH WATER, TOTAL RECOVERABLE, UG/L	06/25/91-06/25/91 06/24/91-06/24/91	0	1	
COLM0029	No	82587	ALDICARB SULFONE, WH WATER, TOTAL RECOVERABLE, UG/L	06/24/91-06/24/91	0	1	
COLM0044	No	82587	ALDICARB SULFONE, WH WATER, TOTAL RECOVERABLE, UG/L	08/15/91-08/15/91	Ŏ	1	
COLM0011	No	82613	OXYAMYL, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	0	1	
COLM0013	No	82613	OXYAMYL, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	0	1	
COLM0025	No	82613	OXYAMYL, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	0	1 1	
COLM0029 COLM0044	No No	82613 82613	OXYAMYL, WHOLE WATER, TOTAL RECOVERABLE UG/L OXYAMYL, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91 08/15/91-08/15/91	0	1	
COLM0011	No	82614	DYFONATE (FONOFOS), WATER, TOTAL RECOVERABLE, UG/L	06/25/91-06/25/91	0	1	
COLM0013	No	82614	DYFONATE (FONOFOS), WATER, TOTAL RECOVERABLE, UG/L	06/25/91-06/25/91	ő	i	
COLM0025	No	82614	DYFONATE (FONOFOS), WATER, TOTAL RECOVERABLE, UG/L	06/24/91-06/24/91	0	1	
COLM0029	No	82614	DYFONATE (FONOFOS), WATER, TOTAL RECOVERABLE, UG/L	06/24/91-06/24/91	0	1	
COLM0044	No	82614	DYFONATE (FONOFOS), WATER, TOTAL RECOVERABLE, UG/L	08/15/91-08/15/91	0	1	
COLM0011	No No	82615 82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE UG/L CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91 06/25/91-06/25/91	0	1	
COLM0013 COLM0025	No	82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	0	1	
COLM0029	No	82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	ő	1	
COLM0044	No	82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE UG/L	08/15/91-08/15/91	0	1	
COLM0011	No	82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	0	1	
COLM0013	No	82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	0	1	
COLM0025	No	82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	0	l	
COLM0029 COLM0044	No No	82619 82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE UG/L ALDICARB, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91 08/15/91-08/15/91	0	1	
COLM0007	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/10/76-11/10/76	0	1	
COLM0008	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/10/76-11/10/76	ő	i	
COLM0009	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/10/76-11/10/76	0	1	
COLM0011	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/25/91-06/25/91	0	1	
COLM0012	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/20/94-07/20/94	0	1	
COLM0016 COLM0018	No No	84000 84000	GEOLOGIC AGE CODE (SEE USGS CATALOG) GEOLOGIC AGE CODE (SEE USGS CATALOG)	02/06/92-02/06/92 11/11/76-11/11/76	0] 1	
COLM0018 COLM0021	No No	84000 84000	GEOLOGIC AGE CODE (SEE USGS CATALOG) GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/08/95-08/08/95	0	1	
COLM0021	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/16/77-08/16/77	0	1	
COLM0025	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/18/93-09/22/93	Ö	2	
COLM0027	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	03/21/91-02/03/92	0	2	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

a:	7 D 1	a 1	N	G: . E 1	* *	0.1	D1
Station	In Park	Code	Name	Start - End	Years	Obs	Plots!
COLM0029	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/24/91-09/22/93	2	5	
COLM0030	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	03/12/96-03/12/96	0	1	
COLM0035	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/08/95-08/08/95	0	1	
COLM0007	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/10/76-11/10/76	0	1	
COLM0008	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/10/76-11/10/76	0	1	
COLM0009	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/10/76-11/10/76	0	1	
COLM0011	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/25/91-06/25/91	0	1	
COLM0012	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/20/94-07/20/94	0	1	
COLM0016	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	02/06/92-02/06/92	0	1	
COLM0018	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/11/76-11/11/76	0	1	
COLM0021	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/08/95-08/08/95	0	1	
COLM0023	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/16/77-08/16/77	0	1	
COLM0025	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/18/93-09/22/93	0	2	
COLM0027	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	03/21/91-02/03/92	0	2	
COLM0029	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/24/91-09/22/93	2	5	
COLM0030	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	03/12/96-03/12/96	0	1	
COLM0035	No	84001	AOUIFER NAME CODE (SEE USGS CATALOG)	08/08/95-08/08/95	0	1	

¹T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station-By-Station Results

Station Inventory for Station: COLM0001

NPS Station ID: COLM0001 Location: 047 HUDSON

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14030001 Major Basin: Minor Basin:

RF1 Index: 14030001

RF3 Index: 14030001032303.64 Description:

LAT/LON: 38.986948/-108.754170

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 4.84

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 385913108451501 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.43

On/Off RF1: On/Off RF3:

Date Created: 04/14/78

Parameter Inventory for Station: COLM0001

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/77-08/31/77	1	11.3	11.3	11.3	11.3	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCÈ (UMHOS/CM @, 25C)	08/31/77-08/31/77	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/31/77-08/31/77	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/31/77-08/31/77	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/31/77-08/31/77	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/31/77-08/31/77	1	9.6	9.6	9.6	9.6	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/31/77-08/31/77	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/31/77-08/31/77	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/31/77-08/31/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/31/77-08/31/77	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/31/77-08/31/77	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/31/77-08/31/77	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/31/77-08/31/77	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/31/77-08/31/77	1	41.	41.	41.	41.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/31/77-08/31/77	1	80.	80.	80.	80.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/31/77-08/31/77	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/31/77-08/31/77	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/31/77-08/31/77	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/31/77-08/31/77	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00935	POTASSÍUM, DISSOLVED (MG/L AS K)	08/31/77-08/31/77	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	08/31/77-08/31/77	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/31/77-08/31/77	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00950	FLUORIDÉ, DISSOÈVED (MG/L ÁS F)	08/31/77-08/31/77	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/31/77-08/31/77	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/31/77-08/31/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/31/77-08/31/77	1	60.	60.	60.	60.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/31/77-08/31/77	1	288.	288.	288.	288.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/31/77-08/31/77	1	0.39	0.39	0.39	0.39	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: COLM0001

				Total	Exceed	Prop.	7/15-10/19			10/20-1/14			1/15-5/31			6/01-7/14		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	$0.0\bar{0}$	1	0	0.00			-			-			
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0002 Location: 045 FULLER Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14030001 Major Basin: Minor Basin:

RF1 Index: 14030001 RF3 Index: 14020005081400.00

Description:

LAT/LON: 38.994171/-108.740559

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000 RF3 Mile Point: 1.17

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 385939108442601 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 9.20 Distance from RF3: 0.22

On/Off RF1: On/Off RF3:

Date Created: 04/14/78

Parameter Inventory for Station: COLM0002

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/77-08/31/77	1	12.1	12.1	12.1	12.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCÈ (UMHOS/CM @, 25C)	08/31/77-08/31/77	1	600.	600.	600.	600.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/31/77-08/31/77	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/31/77-08/31/77	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/31/77-08/31/77	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/31/77-08/31/77	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/31/77-08/31/77	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/31/77-08/31/77	1	340.	340.	340.	340.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/31/77-08/31/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/31/77-08/31/77	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/31/77-08/31/77	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/31/77-08/31/77	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/31/77-08/31/77	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/31/77-08/31/77	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/31/77-08/31/77	1	59.	59.	59.	59.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/31/77-08/31/77	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/31/77-08/31/77	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/31/77-08/31/77	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/31/77-08/31/77	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00935	POTASSÍUM, DISSOLVED (MG/L AS K)	08/31/77-08/31/77	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	08/31/77-08/31/77	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/31/77-08/31/77	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00950	FLUORIDÉ, DISSOÈVED (MG/L ÁS F)	08/31/77-08/31/77	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/31/77-08/31/77	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/31/77-08/31/77	1 #	# 5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/31/77-08/31/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/31/77-08/31/77	1	350.	350.	350.	350.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/31/77-08/31/77	1	0.48	0.48	0.48	0.48	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.	7/15-10/19			-10/20-1/14-			1/15-5/31-			6/01-7/14-		
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	$0.0\bar{0}$	1	0	0.00			-			-			
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOÙVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0003 Location: UC00100122BAA1

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14010005 Major Basin: Minor Basin:

RF1 Index: 14010005 RF3 Index: 14020005000100.29 Description:

LAT/LON: 39.057781/-108.579726

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000 RF3 Mile Point: 2.00

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390328108344701 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.50 Distance from RF3: 0.24

On/Off RF1: On/Off RF3:

Date Created: 04/14/78

Parameter Inventory for Station: COLM0003

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/16/77-08/16/77	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCÈ (UMHOS/CM @, 25C)	08/16/77-08/16/77	1	350.	350.	350.	350.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/16/77-08/16/77	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/16/77-08/16/77	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/16/77-08/16/77	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/16/77-08/16/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/16/77-08/16/77	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/16/77-08/16/77	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/16/77-08/16/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/16/77-08/16/77	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/16/77-08/16/77	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/16/77-08/16/77	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/16/77-08/16/77	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/16/77-08/16/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/16/77-08/16/77	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00925	MAGNESIÚM, DISSOLVÈD (MG/L AS MG)	08/16/77-08/16/77	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/16/77-08/16/77	1	77.	77.	77.	77.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/16/77-08/16/77	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/16/77-08/16/77	1	66.	66.	66.	66.	0.	0.	**	**	**	**
00935	POTASSÍUM, DISSOLVED (MG/L AS K)	08/16/77-08/16/77	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	08/16/77-08/16/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/16/77-08/16/77	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00950	FLUORIDÉ, DISSOÈVED (MG/L ÁS F)	08/16/77-08/16/77	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/16/77-08/16/77	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (ÙG/L AS FE)	08/16/77-08/16/77	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/16/77-08/16/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/16/77-08/16/77	1	305.	305.	305.	305.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/16/77-08/16/77	1	0.41	0.41	0.41	0.41	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.	7/15-10/19			-10/20-1/14-			1/15-5/31-			6/01-7/14-		
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	$0.0\bar{0}$	1	0	0.00			-			-			
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOÙVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0004 Location: UC00100122BBD1

Station Type: /TYPA/AMBNT/SPRING RMI-Indexes:

RMI-Miles: HUC: 14010005 Major Basin: Minor Basin:

RF1 Index: 14010005 RF3 Index: 14010005000911.81 Description:

LAT/LON: 39.059448/-108.588338

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000 RF3 Mile Point: 12.67

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390334108351801 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 3.00 Distance from RF3: 0.14

On/Off RF1: On/Off RF3:

Date Created: 04/14/78

Parameter Inventory for Station: COLM0004

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/15/77-08/15/77	1	15.2	15.2	15.2	15.2	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/15/77-08/15/77	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/15/77-08/15/77	1	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/15/77-08/15/77	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/15/77-08/15/77	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/15/77-08/15/77	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00405	CARBON ĎIOXIDE (MG/L AS CO2)	08/15/77-08/15/77	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/77-08/15/77	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/15/77-08/15/77	1	360.	360.	360.	360.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/15/77-08/15/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/15/77-08/15/77	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/15/77-08/15/77	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/15/77-08/15/77	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/15/77-08/15/77	1	960.	960.	960.	960.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/15/77-08/15/77	1	670.	670.	670.	670.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/15/77-08/15/77	1	270.	270.	270.	270.	0.	0.	**	**	**	**
00925	MAGNESIÚM, DISSOLVÈD (MG/L AS MG)	08/15/77-08/15/77	1	70.	70.	70.	70.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/15/77-08/15/77	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/15/77-08/15/77	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/15/77-08/15/77	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/15/77-08/15/77	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	08/15/77-08/15/77	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/15/77-08/15/77	1	900.	900.	900.	900.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L ÁS F)	08/15/77-08/15/77	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/15/77-08/15/77	1	34.	34.	34.	34.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (ÙG/L AS FE)	08/15/77-08/15/77	1 #	# 5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/15/77-08/15/77	1	4.	4.	4.	4.	0.	0.	**	**	**	**
70301	SOLIDS, DISSÓLVED-SUM OF CONSTITÚENTS (MG/L)	08/15/77-08/15/77	1	1630.	1630.	1630.	1630.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/15/77-08/15/77	1	0.22	0.22	0.22	0.22	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/15/77-08/15/77	1	2.22	2.22	2.22	2.22	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.	7/15-10/19			-10/20-1/14-			1/15-5/31-			6/01-7/14-		
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	$0.0\bar{0}$	1	0	0.00			-			-			
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOÙVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0005 Location: COLORADO RIVER BELOW GUNNISON RIVER LAT/LON: 39.066670/-108.581392

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles: HUC: 14010005

Depth of Water: 0 Major Basin: Elevation: 0 Minor Basin:

RF1 Index: 14010005009 RF3 Index: 14020005000100.29 RF1 Mile Point: 12.280 RF3 Mile Point: 2.57

Description:

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390400108345300 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.04

On/Off RF1: ON On/Off RF3:

Date Created: 01/25/77

Parameter Inventory for Station: COLM0005

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/09/76-11/10/76	9	6.5	6.778	9.	5.5	1.194	1.093	5.5	6.	7.5	9.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	11/09/76-11/10/76	9	1300.	1217.778	1375.	1000.	22175.694	148.915	1000.	1080.	1350.	1375.
00300	OXYGEN, DISSOLVED MG/L	11/09/76-11/10/76	8	10.45	10.313	11.3	9.4	0.436	0.66	**	**	**	**
00400	PH (STANDARD UNITS)	11/09/76-11/10/76	9	8.6	8.544	8.7	8.3	0.02	0.142	8.3	8.4	8.65	8.7
00400	CONVERTED PH (STANDARD UNITS)	11/09/76-11/10/76	9	8.6	8.523	8.7	8.3	0.021	0.144	8.3	8.4	8.65	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/09/76-11/10/76	9	0.003	0.003	0.005	0.002	0.	0.001	0.002	0.002	0.004	0.005
00600	NITROGEN, TOTAL (MG/L AS N)	11/09/76-11/10/76	9	1.5	1.5	2.	1.1	0.06	0.245	1.1	1.35	1.6	2.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/09/76-11/10/76	9	0.49	0.483	0.94	0.13	0.052	0.228	0.13	0.345	0.595	0.94
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/76-11/10/76	9	0.01	0.013	0.02	0.005	0.	0.007	0.005	0.005	0.02	0.02
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/76-11/10/76	9	0.51	0.494	0.94	0.14	0.05	0.223	0.14	0.36	0.595	0.94
00630	NITRITE PLUS NITRATÉ, TOTAL 1 DET. (MG/L AS N)	11/09/76-11/10/76	9	1.	1.006	1.2	0.73	0.017	0.13	0.73	0.96	1.1	1.2
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/76-11/10/76	9	0.05	0.052	0.07	0.04	0.	0.011	0.04	0.04	0.06	0.07
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/09/76-11/10/76	9	0.02	0.019	0.04	0.005	0.	0.014	0.005	0.005	0.035	0.04
71887	NITROGEN, TOTAL, AS NO3 - MG/L	11/09/76-11/10/76	9	6.7	6.644	9.	4.8	1.293	1.137	4.8	5.95	7.05	9.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-7/15-10/19			10/20-1/14-			1/15-5/31-			6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	8	0	0.00			-	8	0	0.00			-			
00400	PH	Fresh Chronic	9.	9	0	0.00				9	0	0.00						
		Other-Lo Lim.	6.5	9	0	0.00				9	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00				9	0	0.00						

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0006 LAT/LON: 39.067226/-108.581116 Location: COLO RIVER AT GRAND AVE. BRIDGE AT GRAND JUNC CO

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Hidexes: RMI-Miles: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RFI Index: 14010005009

RF3 Index: 14020005000100.29 Description:

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 12.280

RF3 Mile Point: 1.99

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010145 /GV0145 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.10

On/Off RF1: ON On/Off RF3:

Date Created: 08/28/82

Parameter Inventory for Station: COLM0006

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 90th

****** No Parameter Data Available for this Station *******

NPS Station ID: COLM0007 Location: WEST FILTRATION PLANT

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles: HUC: 14010005 Major Basin:

Minor Basin: RF1 Index: 14010005009

RF3 Index: 14010005000911.81 Description:

LAT/LON: 39.070837/-108.582226

Depth of Water: 0

RF1 Mile Point: 12.130

RF3 Mile Point: 11.84

Elevation: 0

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390415108345600 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.04

On/Off RF1: OFF On/Off RF3:

Date Created: 01/25/77

Parameter Inventory for Station: COLM0007

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/09/76-11/10/76	9	15.5	15.556	17.5	13.5	1.528	1.236	13.5	14.75	16.5	17.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/09/76-11/10/76	9	1250.	1231.111	1300.	1100.	4711.111	68.638	1100.	1175.	1290.	1300.
00300	OXYGEN, DISSOLVED MG/L	11/09/76-11/10/76	9	4.7	4.833	6.8	3.7	0.952	0.976	3.7	4.2	5.4	6.8
00400	PH (STANDARD UNITS)	11/09/76-11/10/76	9	7.7	7.633	7.7	7.4	0.01	0.1	7.4	7.6	7.7	7.7
00400	CONVERTED PH (STANDARD UNITS)	11/09/76-11/10/76	9	7.7	7.622	7.7	7.4	0.01	0.101	7.4	7.6	7.7	7.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/09/76-11/10/76	9	0.02	0.024	0.04	0.02	0.	0.006	0.02	0.02	0.025	0.04
00600	NITROGEN, TOTAL (MG/L AS N)	11/09/76-11/10/76	9	20.	19.556	22.	15.	4.278	2.068	15.	18.5	21.	22.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/09/76-11/10/76	9	0.	0.333	1.	0.	0.25	0.5	0.	0.	1.	1.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/76-11/10/76	9	18.	17.889	21.	15.	3.361	1.833	15.	16.5	19.	21.
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/76-11/10/76	9	18.	17.667	20.	13.	4.75	2.179	13.	16.5	19.5	20.
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/76-11/10/76	9	1.7	1.644	1.8	1.4	0.028	0.167	1.4	1.5	1.8	1.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/76-11/10/76	9	8.5	8.556	9.8	6.8	0.74	0.86	6.8	8.3	9.15	9.8
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/09/76-11/10/76	9	7.7	6.945	9.	0.005	7.259	2.694	0.005	6.95	8.2	9.
71887	NITROGEN, TOTAL, AS NO3 - MG/L	11/09/76-11/10/76	9	88.	85.556	96.	64.	94.278	9.71	64.	81.	93.	96.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		7/15-10/19			-10/20-1/14			1/15-5/31-			6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	2	0.22			-	9	2	0.22			-			
00400	PH	Fresh Chronic	9.	9	0	0.00				9	0	0.00						
		Other-Lo Lim.	6.5	9	0	0.00				9	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00				9	0	0.00						

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0008 Location: COLORADO RIVER ABOVE REDLANDS CANAL LAT/LON: 39.081670/-108.608337

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles: HUC: 14010005

Depth of Water: 0 Major Basin: Elevation: 0 Minor Basin:

RF1 Index: 14010005009 RF3 Index: 14010005000911.22 RF1 Mile Point: 10.270 RF3 Mile Point: 11.22

Description:

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390454108363000 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01

On/Off RF1: ON On/Off RF3:

Date Created: 01/25/77

Parameter Inventory for Station: COLM0008

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/09/76-11/10/76	9	6.5	6.944	9.	6.	0.903	0.95	6.	6.25	7.5	9.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/09/76-11/10/76	9	1150.	1117.778	1175.	1025.	2625.694	51.242	1025.	1075.	1150.	1175.
00300	OXYGEN, DISSOLVED MG/L	11/09/76-11/10/76	9	10.4	10.356	11.5	9.3	0.67	0.819	9.3	9.55	11.15	11.5
00400	PH (STANDARD UNITS)	11/09/76-11/10/76	9	8.6	8.522	8.6	8.4	0.009	0.097	8.4	8.4	8.6	8.6
00400	CONVERTED PH (STANDARD UNITS)	11/09/76-11/10/76	9	8.6	8.512	8.6	8.4	0.01	0.098	8.4	8.4	8.6	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/09/76-11/10/76	9	0.003	0.003	0.004	0.003	0.	0.001	0.003	0.003	0.004	0.004
00600	NITROGEN, TOTAL (MG/L AS N)	11/09/76-11/10/76	10	1.2	1.152	1.4	0.9	0.031	0.175	0.902	0.98	1.25	1.4
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/09/76-11/10/76	10	0.41	0.429	0.64	0.25	0.012	0.107	0.263	0.38	0.473	0.633
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/76-11/10/76	10 ##	0.005	0.017	0.08	0.005	0.001	0.025	0.005	0.005	0.018	0.076
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/76-11/10/76	10	0.42	0.443	0.64	0.25	0.012	0.108	0.263	0.388	0.518	0.633
00630	NITRITE PLUS NITRATÉ, TOTAL 1 DET. (MG/L AS N)	11/09/76-11/10/76	10	0.69	0.704	0.94	0.54	0.012	0.11	0.548	0.635	0.765	0.924
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/76-11/10/76	10	0.05	0.047	0.05	0.03	0.	0.007	0.031	0.048	0.05	0.05
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/09/76-11/10/76	10 ##	0.008	0.014	0.06	0.005	0.	0.017	0.005	0.005	0.013	0.056
71887	NITROGEN, TOTAL, AS NO3 - MG/L	11/09/76-11/10/76	10	5.1	5.08	6.2	4.	0.513	0.716	4.01	4.475	5.55	6.18

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		7/15-10/19			10/20-1/14-			1/15-5/31-			6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	0.00			-	9	0	0.00			-			
00400	PH	Fresh Chronic	9.	9	0	0.00				9	0	0.00						
		Other-Lo Lim.	6.5	9	0	0.00				9	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	10	0	0.00				10	0	0.00						

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0009 Location: REDLANDS POWER CANAL

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14010005 Major Basin: Minor Basin:

RF1 Index: 14010005009 RF3 Index: 14010005000908.56

LAT/LON: 39.083338/-108.616671

Depth of Water: 0

RF1 Mile Point: 10.020

RF3 Mile Point: 9.47

Elevation: 0

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390500108370000 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.00

On/Off RF1: OFF On/Off RF3:

Date Created: 01/25/77

Description:

Parameter Inventory for Station: COLM0009

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/09/76-11/10/76	9	7.	7.333	9.	7.	0.438	0.661	7.	7.	7.5	9.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	11/09/76-11/10/76	9	1100.	1069.444	1125.	950.	3246.528	56.978	950.	1037.5	1112.5	1125.
00300	OXYGEN, DISSOLVED MG/L	11/09/76-11/10/76	9	10.3	10.2	11.2	9.4	0.275	0.524	9.4	9.85	10.35	11.2
00400	PH (STANDARD UNITS)	11/09/76-11/10/76	9	8.6	8.533	8.8	8.2	0.033	0.18	8.2	8.4	8.65	8.8
00400	CONVERTED PH (STANDARD UNITS)	11/09/76-11/10/76	9	8.6	8.499	8.8	8.2	0.034	0.184	8.2	8.4	8.65	8.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/09/76-11/10/76	9	0.003	0.003	0.006	0.002	0.	0.001	0.002	0.002	0.004	0.006
00600	NITROGEN, TOTAL (MG/L AS N)	11/09/76-11/10/76	9	1.8	2.056	4.3	1.5	0.725	0.852	1.5	1.7	1.9	4.3
00605	NITROGEN, ORGANÌC, TOTAL (MG/L AS N)	11/09/76-11/10/76	9	0.58	0.587	0.71	0.39	0.01	0.098	0.39	0.53	0.67	0.71
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/76-11/10/76	9	0.01	0.011	0.04	0.005	0.	0.011	0.005	0.005	0.01	0.04
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/76-11/10/76	9	0.58	0.596	0.72	0.4	0.01	0.101	0.4	0.535	0.685	0.72
00630	NITRITE PLUS NITRATÉ, TOTAL 1 DET. (MG/L AS N)	11/09/76-11/10/76	9	1.2	1.456	3.6	1.	0.655	0.809	1.	1.15	1.3	3.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/76-11/10/76	9	0.07	0.074	0.12	0.05	0.	0.022	0.05	0.055	0.085	0.12
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/09/76-11/10/76	9 ##	0.005	0.011	0.04	0.005	0.	0.011	0.005	0.005	0.01	0.04
71887	NITROGEN, TÓTAL, AS NO3 - MG/L	11/09/76-11/10/76	9	8.1	9.044	19.	6.6	14.29	3.78	6.6	7.45	8.4	19.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.	7/15-10/19				10/20-1/14-			-1/15-5/31-			6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	$0.0\bar{0}$			-	9	0	0.00			-			
00400	PH	Fresh Chronic	9.	9	0	0.00				9	0	0.00						
		Other-Lo Lim.	6.5	9	0	0.00				9	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00				9	0	0.00						

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0010 LAT/LON: 39.087226/-108.608892

Location: POND WEST OF LEACH CREEK, BLUE HERON TRAIL

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles: HUC: 14010005

Depth of Water: 0 Major Basin: Elevation: 0 Minor Basin:

RF1 Index: 14010005 RF1 Mile Point: 0.000 RF3 Index: 14030001001504.67 RF3 Mile Point: 6.12

Description:

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390514108363201 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 8.10 Distance from RF3: 0.65

On/Off RF1: On/Off RF3:

Date Created: 07/08/95

Parameter Inventory for Station: COLM0010

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/14/95-08/08/95	4	13.3	15.55	24.	11.6	32.403	5.692	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/14/95-08/08/95	3	651.	651.	657.	645.	36.	6.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	03/14/95-08/08/95	4	5510.	6128.5	13100.	394. 36	494529.	6041.07	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/14/95-08/08/95	3	10.7	10.167	12.5	7.3	6.973	2.641	**	**	**	**
00400	PH (STANDARD UNITS)	03/14/95-08/08/95	4	8.27	8.383	8.86	8.13	0.108	0.329	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/14/95-08/08/95	4	8.266	8.309	8.86	8.13	0.115	0.34	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/14/95-08/08/95	4	0.005	0.005	0.007	0.001	0.	0.003	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/13/95-08/08/95	2 ##	# 0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	08/08/95-08/08/95	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/13/95-08/08/95	2	3.05	3.05	4.8	1.3	6.125	2.475	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-7/15-10/19			-10/20-1/14			1/15-5/31-			6/01-7/14-	
Paramete	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00			-	1	0	0.00	1	0	0.00
00400	PH	Fresh Chronic	9.	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	2	0	0.00	1	0	0.00							1	0	0.00
		Drinking Water	50.	2	0	0.00	1	0	0.00							1	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0011 LAT/I Location: DRAIN ALONG REDLANDS PARKWAY, AT MOUTH LAT/LON: 39.087226/-108.625560

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14010005 Depth of Water: 0 Elevation: 0 Major Basin:

Minor Basin:

RF1 Index: 14010005 RF1 Mile Point: 0.000 RF3 Index: 14010005009103.95 RF3 Mile Point: 13.36

Description:

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390514108373201 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 6.10 Distance from RF3: 0.03

On/Off RF1: On/Off RF3:

Date Created: 08/24/91

Parameter Inventory for Station: COLM0011

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/30/91-02/06/92	2	3.	3.	3.	3.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/91-02/06/92	4	10.5	10.625	18.5	3.	77.563	8.807	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/21/91-02/06/92	3	651.	647.	652.	638.	61.	7.81	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/21/91-02/06/92	3	2.	1.567	2.	0.7	0.563	0.751	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	03/21/91-02/06/92	4	2050.	2010.	2680.	1260.	562466.667	749.978	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/21/91-02/06/92	3	10.2	9.567	11.2	7.3	4.103	2.026	**	**	**	**
00400	PH (STANDARD UNITS)	03/21/91-02/06/92	4	8.1	8.1	8.2	8.	0.007	0.082	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/21/91-02/06/92	4	8.1	8.094	8.2	8.	0.007	0.082	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/91-02/06/92	4	0.008	0.008	0.01	0.006	0.	0.002	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/21/91-02/06/92	3	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/21/91-02/06/92	3	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/91-02/06/92	3	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/21/91-08/30/91	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
00613	NITRITE NÍTROGEN, DÍSSOLVED (MĜ/L AS N)	03/21/91-08/30/91	2 #	# 0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L ÁS N)	03/21/91-02/06/92	3	3.1	2.7	3.8	1.2	1.81	1.345	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/21/91-08/30/91	2 #	# 0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/21/91-02/06/92	3	220.	200.	230.	150.	1900.	43.589	**	**	**	**
00925	MAGNESIÚM, DISSOLVÈD (MG/L AS MG)	03/21/91-02/06/92	3	140.	117.	150.	61.	2377.	48.754	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/21/91-02/06/92	3	260.	223.333	280.	130.	6633.333	81.445	**	**	**	**
00935	POTASSÍUM, DISSOLVÈD (MG/L AS K)	03/21/91-02/06/92	3	7.3	6.467	7.6	4.5	2.923	1.71	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	03/21/91-02/06/92	3	51.	41.667	53.	21.	321.333	17.926	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/21/91-02/06/92	3	940.	943.333	1200.	690.	65033.333	255.016	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L ÁS F)	03/21/91-02/06/92	3	0.9	0.9	1.1	0.7	0.04	0.2	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/21/91-02/06/92	3	26.	23.667	27.	18.	24.333	4.933	**	**	**	**
01000	ARSENÍC, DISSOLVED (UG/L AS AS)	03/21/91-08/30/91	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01020	BORON, DISSOLVED (ÙG/L AS B)	03/21/91-02/06/92	3	500.	426.667	530.	250.	23633.333	153.731	**	**	**	**
01025	CADMIÚM, DISSOLVÈD (UG/L AS CD)	03/21/91-08/30/91	2 #	# 0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/21/91-08/30/91	2 #		0.75	1.	0.5	0.125	0.354	**	**	**	**
01040	COPPER, DIŚSOLVED (UG/L AS CU)	03/21/91-08/30/91	2 #	# 0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/21/91-08/30/91	2 #	# 0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLÝBDENUM, DIŠSOLVED (ÚG/L AS MO)	03/21/91-08/30/91	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	03/21/91-08/30/91	2	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
01090	ZINC, DISSOLVED (UG/L ÀS ZN)	03/21/91-08/30/91	2 #	# 7.	7.	9.	5.	8.	2.828	**	**	**	**
28011	URANIUM.NATURAL.TOTAL UG/L AS U	03/21/91-08/30/91	2	26.	26.	40.	12.	392.	19.799	**	**	**	**
30282	METHIOCARB, WATER, WHOLE, RECOVERABLE, UG/L	06/25/91-06/25/91	1 #	# 0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
30296	PROPOXUR, WATER, WHOLE, RECOVERABLE, UG/L	06/25/91-06/25/91	1 #		0.25	0.25	0.25	0.	0.	**	**	**	**
38932	CHLORPYRIFOS, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	1 #		0.005	0.005	0.005	0.	0.	**	**	**	**
39011	DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 #		0.005	0.005	0.005	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: COLM0011

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##		0.005	0.005	0.005	0.	0.	**	**	**	**
39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39051	METHOMYL IN WHOLE WATER (UG/L)	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##		0.005	0.005	0.005	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39560	DEMETON IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##		0.05	0.05	0.05	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##		0.005	0.005	0.005	0.	0.	**	**	**	**
39580	GUTHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##		0.005	0.005	0.005	0.	0.	**	**	**	**
39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/91-08/30/91	2	1685.	1685.	2280.	1090.	708050.	841.457	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/21/91-08/30/91	2 ##		0.05	0.05	0.05	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/21/91-08/30/91	2	7.75	7.75	12.	3.5	36.125	6.01	**	**	**	**
77441	1-NAPHTHOL WHOLE WATER,UG/L	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82088	TERBUFOS (COUNTER) TOTAL WHOLE WATER,UG/L	06/25/91-06/25/91	1 ##		0.005	0.005	0.005	0.	0.	**	**	**	**
82584	3-HYDROXY CARBOFURAN, WATER, TOTAL RECOVERABLE, UG/L	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	1 ##		0.25	0.25	0.25	0.	0.	**	**	**	**
82587	ALDICARB SULFONE, WH WATER, TOTAL RECOVERABLE,UG/L	06/25/91-06/25/91	1 ##		0.25	0.25	0.25	0.	0.	**	**	**	**
82613	OXYAMYL, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	1 ##		0.25	0.25	0.25	0.	0.	**	**	**	**
82614	DYFONATE (FONOFOS), WATER, TOTAL RECOVERABLE, UG/L	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	1 ##		0.25	0.25	0.25	0.	0.	**	**	**	**
82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		7/15-10/19-			-10/20-1/14			1/15-5/31			-6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00				2	0	0.00			
00400	PH	Fresh Chronic	9.	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	3	0	0.00	1	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00				2	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	2	0	0.00	1	0	0.00				1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00				2	0	0.00			
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00				2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	3	1.00	1	1	1.00				2	2	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	1	0	0.00				2	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2	0	0.00	1	0	0.00				1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00				1	0	0.00			
	,	Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
	,	Drinking Water	15.	2	0	0.00	1	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	1	0	0.00				1	0	0.00			
	,	Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	2	1	0.50	1	0	0.00				1	1	1.00			
38932	CHLORPYŘIFOS, TOTÁL RECOVERABLE	Fresh Acute	0.083	1	0	0.00										1	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	1	0	0.00										1	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
	*	Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			
82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVER	Drinking Water	4.	1	0	0.00										1	0	0.00

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

				Total	Exceed	Prop.		7/15-10/19)		-10/20-1/14			1/15-5/31-			-6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
82587	ALDICARB SULFONE, WHOLE WATER, TOTAL REC	Drinking Water	2.	1	0	$0.0\bar{0}$			-			-			-	1	0	0.00
82613	OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	Drinking Water	200.	1	0	0.00										1	0	0.00
82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERAB	Drinking Water	40.	1	0	0.00										1	0	0.00
82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	Drinking Water	3.	1	0	0.00										1	0	0.00

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0012 LAT/LON: 39.089170/-108.625837 Location: COLORADO R. AT REDLANDS PARKWAY NR GRAND JCT., C

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes: RMI-Miles:

Description:

HUC: 14010005 Major Basin:

Minor Basin: RF1 Index: 14010005 RF3 Index: 14030001001504.67 Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000 RF3 Mile Point: 6.12

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390521108373300 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 8.10 Distance from RF3: 0.65

Date Created: 12/10/94

On/Off RF1: On/Off RF3:

Parameter Inventory for Station: COLM0012

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	07/20/94-09/08/95	10	251.	297.7	580.	237.	10938.011	104.585	237.3	242.25	321.5	555.2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/20/94-09/08/95	13	11.7	11.877	23.	1.	55.997	7.483	1.44	5.5	18.85	23.
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/20/94-09/08/95	13	3630.	8115.077	32500.	2120. 9	5354879.244	9764.982	2268.	2765.	9355.	29900.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	07/20/94-09/08/95	12	1067.5	919.833	1291.	319.	125989.97	354.951	319.9	585.	1187.	1264.9
00400	PH (STANDARD UNITS)	05/10/95-09/08/95	5	8.17	8.16	8.3	7.94	0.023	0.152	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/10/95-09/08/95	5	8.17	8.138	8.3	7.94	0.024	0.154	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/95-09/08/95	5	0.007	0.007	0.011	0.005	0.	0.003	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/20/94-09/08/95	13	8.	7.946	8.2	7.7	0.016	0.127	7.74	7.85	8.	8.12
00403	CONVERTED PH, LAB, STANDARD UNITS	07/20/94-09/08/95	13	8.	7.929	8.2	7.7	0.016	0.128	7.74	7.85	8.	8.12
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/94-09/08/95	13	0.01	0.012	0.02	0.006	0.	0.004	0.008	0.01	0.014	0.018
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/20/94-09/08/95	13	83.	79.	120.	35.	871.	29.513	35.	50.5	105.	116.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/20/94-09/08/95	13	27.	23.615	36.	8.2	100.23	10.011	8.44	13.5	32.	35.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/20/94-09/08/95	13	76.	70.923	120.	15.	1420.077	37.684	16.2	33.	110.	116.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/20/94-09/08/95	13	3.4	3.092	4.1	1.4	1.079	1.039	1.4	2.1	4.	4.06
00940	CHLORIDE,TOTAL IN WATER MG/L	07/20/94-09/08/95	13	57.	64.846	140.	10.	1953.974	44.204	11.2	26.	106.5	136.
00945	SULFATE, TOTAL (MG/L AS SO4)	07/20/94-09/08/95	13	230.	216.462	350.	48.	11734.769	108.327	51.2	115.	320.	346.
00950	FLUORIDE, DISSOLVED (MG/L ÁS F)	07/20/94-09/08/95	13	0.3	0.308	0.5	0.2	0.009	0.095	0.2	0.2	0.4	0.46
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/20/94-09/08/95	13	11.	10.9	13.	9.2	1.912	1.383	9.24	9.6	12.	13.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/20/94-09/08/95	13	3.	2.923	5.	0.5	2.535	1.592	0.5	1.5	4.	5.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/20/94-04/17/95	8	742.5	730.125	856.	428.	16958.982	130.227	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		7/15-10/19			-10/20-1/14			-1/15-5/31			6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	5	0	$0.0\bar{0}$	3	0	0.00			-	1	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	5	0	0.00	3	0	0.00				1	0	0.00	1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00
		Drinking Water	250.	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	13	6	0.46	6	4	0.67	3	2	0.67	3	0	0.00	1	0	0.00
00950	FLUORIDÉ, DISSOÈVED AS F	Drinking Water	4.	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

			Total	Exceed	Prop.		-7/15-10/19			-10/20-1/14-			1/15-5/31			-6/01-7/14	
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	13	0	$0.0\bar{0}$	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00
	Drinking Water	50.	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0013 Location: LEACH CREEK AT DURHAM, CO. Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14010005 Major Basin: Minor Basin:

RF1 Index: 14010005 RF3 Index: 14010005003600.50 Description:

LAT/LON: 39.090838/-108.606949

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000 RF3 Mile Point: 1.12

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 09152650 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.06

On/Off RF1: On/Off RF3:

Date Created: / /

Parameter Inventory for Station: COLM0013

Paramete	•	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/30/91-03/10/97	30	16.	16.3	22.	11.	13.666	3.697	11.	12.75	19.5	21.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	115	10.5	11.25	23.	0.5	42.599	6.527	3.5	5.	18.	20.
00025	BAROMETRIC PRESSURE (MM OF HG)	03/21/91-08/10/92	11	650.	649.182	655.	637.	28.764	5.363	638.4	645.	653.	655.
00060	FLOW, STREAM, MEAN DAILY CFS	08/07/73-11/03/75	5	22.	37.6	75.	7.	1134.8	33.687	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/74-03/10/97	55	10.	22.855	62.	0.	397.497	19.937	5.	6.	44.	53.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/07/73-03/10/97	103	2400.	2742.728	5250.	680.	1851351.004	1360.644	1124.	1420.	3970.	4400.
00300	OXYGEN, DISSOLVED MG/L	08/07/73-08/10/92	37	10.3	10.549	15.6	7.3	6.598	2.569	7.6	8.1	12.55	14.44
00400p	PH (STANDARD UNITS)	08/07/73-03/10/97	60	8.235	8.203	8.7	7.3	0.062	0.248	7.81	8.1	8.37	8.493
00400p	CONVERTED PH (STANDARD UNITS)	08/07/73-03/10/97	60	8.235	8.111	8.7	7.3	0.07	0.265	7.81	8.1	8.37	8.493
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/73-03/10/97	60	0.006	0.008	0.05	0.002	0.	0.007	0.003	0.004	0.008	0.016
00403	PH, LAB, STANDARD UNITS SU	03/21/91-02/05/97	28	7.8	7.843	8.1	7.6	0.03	0.173	7.6	7.7	8.	8.1
00403	CONVERTED PH, LAB, STANDARD UNITS	03/21/91-02/05/97	28	7.8	7.811	8.1	7.6	0.031	0.176	7.6	7.7	8.	8.1
00403	MICRO EOUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/91-02/05/97	28	0.016	0.015	0.025	0.008	0.	0.006	0.008	0.01	0.02	0.025
00405	CARBON DIOXIDE (MG/L AS CO2)	08/07/73-07/06/77	28	2.3	4.068	18.	0.6	19.256	4.388	1.19	1.5	4.825	11.5
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/07/73-07/06/77	28	227.	217.679	306.	113.	3333.189	57.734	140.8	162.75	270.	287.3
00440	BICARBONATE ION (MG/L AS HCO3)	08/07/73-07/06/77	28	271.5	264.25	373.	138.	4900.787	70.006	171.3	198.5	328.75	350.3
00445	CARBONATE ION (MG/L AS CO3)	08/07/73-07/06/77	27	0.	0.593	8.	0.	3.251	1.803	0.	0.	0.	2.6
00608	NITROGEN, AMMÒNIA, DISSOLVED (MG/L AS N)	03/21/91-08/30/91	2	0.03	0.03	0.05	0.01	0.001	0.028	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	03/21/91-08/30/91	2	0.03	0.03	0.05	0.01	0.001	0.028	**	**	**	**
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L ÁS N)	08/07/73-09/27/95	45	1.8	3.593	8.2	0.5	8.162	2.857	0.6	1.	6.35	7.34
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/07/73-07/06/77	28	0.09	0.146	0.86	0.	0.042	0.204	0.03	0.03	0.143	0.305
00671	PHOSPHORÚS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/07/73-08/30/91	30	0.03	0.046	0.28	0.005	0.004	0.065	0.01	0.01	0.043	0.08
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/92-03/24/92	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/07/73-07/06/77	28	1350.	1380.	2200.	360.	560155.556	748.435	489.	640.	2100.	2200.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/07/73-07/06/77	28	1100.	1151.071	1900.	240.	465758.069	682.465	359.	460.	1800.	1900.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/73-02/05/97	53	460.	339.642	540.	91.	27971.042	167.245	124.	160.	495.	506.
00925p	MAGNESIÚM, DISSOLVED (MG/L AS MG)	08/07/73-02/05/97	53	180.	135.717	240.	31.	5827.015	76.335	42.4	51.	205.	220.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/07/73-02/05/97	53	260.	213.038	330.	48.	8751.191	93.548	82.	120.	290.	320.
00931	SODIUM ADSORPTION RATIO	08/07/73-07/06/77	28	2.8	2.561	3.4	1.3	0.348	0.59	1.58	2.125	3.	3.13
00932	SODIUM, PERCENT	08/07/73-07/06/77	28	25.	26.75	39.	23.	14.417	3.797	23.	24.	29.	32.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/07/73-02/05/97	53	7.1	7.511	38.	2.7	23.899	4.889	3.6	4.55	9.	9.96
00940p	CHLORIDE, TOTAL IN WATER MG/L	08/07/73-02/05/97	53	170.	151.038	210.	38.	2130.845	46.161	70.6	120.	185.	190.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/07/73-02/05/97	54	1900.	1373.148	2300.	300.	602093.676	775.947	395.	525.	2100.	2200.
00950p	FLUORIDE, DISSOLVED (MG/L ÁS F)	08/07/73-02/05/97	52	0.4	0.377	0.7	0.2	0.01	0.1	0.3	0.3	0.4	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/07/73-02/05/97	52	11.	11.483	24.	7.4	7.441	2.728	8.63	9.425	13.	14.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/21/91-08/30/91	2 #	# 0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	03/21/91-07/15/92	9	340.	245.556	380.	80.	20627.778	143.624	80.	90.	370.	380.
01025	CADMIÚM, DISSOLVÈD (UG/L AS CD)	03/21/91-08/30/91	2 #	# 0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: COLM0013

Paramete		Period of Record		Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/21/91-08/30/91	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/21/91-08/30/91	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/27/73-07/06/77	27	20.	24.074	70.	5.	392.379	19.809	5.	5.	40.	54.
01049	LEAD. DISSOLVED (UG/L AS PB)	03/21/91-08/30/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/07/73-07/06/77	28	75.	112.5	550.	30.	11219.444	105.922	40.	42.5	150.	209.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/21/91-08/30/91	2	6.	6.	7	5.	2.	1.414	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	03/21/91-08/30/91	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
01090	ZINC. DISSOLVED (UG/L AS ZN)	03/21/91-08/30/91	2	19.	19.	30.	8	242.	15.556	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/27/92-09/27/95	5	8.	7.6	10.	5	4.3	2.074	**	**	**	**
01147	SELENIUM. TOTAL (UG/L AS SE)	07/24/95-09/19/96	3	8.	8.333	9.	8	0.333	0.577	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	07/24/95-07/24/95	ĭ	1.7	1.7	í.7	1.7	0.555	0.577	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/21/91-08/30/91	2	13.35	13.35	20.	6.7	88.445	9.405	**	**	**	**
30282	METHIOCARB, WATER, WHOLE, RECOVERABLE, UG/L	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	00.443	0.403	**	**	**	**
30296	PROPOXUR, WATER, WHOLE, RECOVERABLE, UG/L	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
38932	CHLORPYRIFOS. TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	1 ##	0.23	0.005	0.005	0.005	0.	0.	**	**	**	**
39011	DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39011	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39040	S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39040	METHOMYL IN WHOLE WATER (UG/L)	06/25/91-06/25/91	1 ##	0.003	0.003	0.003	0.003	0.	0. 0.	**	**	**	**
		06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0. 0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (ÚG/L)		1 ##		0.005	0.005		0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91		0.005			0.005	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39560	DEMETON IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39580	GUTHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.			**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**		**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/91-07/15/92		1240.	2022.	3660.		1861108.	1364.224	**	**	**	
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/07/73-07/06/77		1760.	2334.963	3740.		1568719.114	1252.485	808.4	1110.	3610.	3672.
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/27/73-07/06/77	27	100.	107.078	225.	46.8	2517.466	50.174	50.92	61.5	147.	181.6
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/07/73-07/06/77	28	3.46	3.229	5.09	0.83	2.876	1.696	1.1	1.513	4.908	4.991
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/21/91-08/30/91	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SÍGMA PRC EST,TOTAL,WATER UG/L	03/21/91-08/30/91	2	4.35	4.35	6.7	2.	11.045	3.323	**	**	**	**
77441	1-NAPHTHOL WHOLE WATER,UG/L	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82088	TERBUFOS (COUNTER) TOTAL WHOLE WATER,UG/L	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82584	3-HYDROXY CARBOFURAN, WATER, TOTAL RECOVERABLE, UG/L	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82587	ALDICARB SULFONE, WH WATER, TOTAL RECOVERABLE, UG/L	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82613	OXYAMYL, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82614	DYFONATE (FONOFOS), WATER, TOTAL RECOVERABLE, UG/L	06/25/91-06/25/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82615	CARBOFURÀN, WHOLÉ WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/25/91-06/25/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-7/15-10/19			-10/20-1/14-			1/15-5/31			-6/01-7/14	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	37	0	0.00	9	0	0.00	9	0	0.00	15	0	0.00	4	0	0.00
00400	PH	Fresh Chronic	9.	60	0	0.00	14	0	0.00	16	0	0.00	24	0	0.00	6	0	0.00
		Other-Lo Lim.	6.5	60	0	0.00	14	0	0.00	16	0	0.00	24	0	0.00	6	0	0.00
00403	PH, LAB	Fresh Chronic	9.	28	0	0.00	7	0	0.00	9	0	0.00	10	0	0.00	2	0	0.00
		Other-Lo Lim.	6.5	28	0	0.00	7	0	0.00	9	0	0.00	10	0	0.00	2	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	2	0	0.00	1	0	0.00				1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	45	0	0.00	12	0	0.00	10	0	0.00	18	0	0.00	5	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	53	0	0.00	12	0	0.00	15	0	0.00	21	0	0.00	5	0	0.00
		Drinking Water	250.	53	0	0.00	12	0	0.00	15	0	0.00	21	0	0.00	5	0	0.00

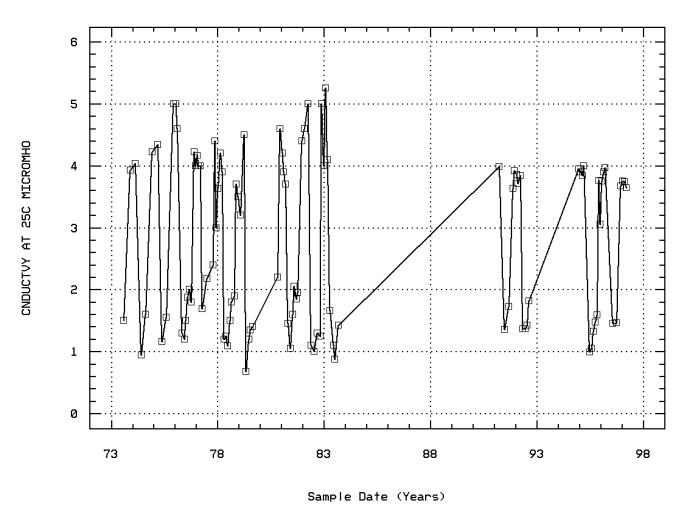
[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

				Total	Exceed	Prop.		-7/15-10/19			-10/20-1/14			1/15-5/31-			6/01-7/14	
Paramet		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	54	54	1.00	12	12	1.00	16	16	1.00	21	21	1.00	5	5	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	52	0	0.00	12	0	0.00	14	0	0.00	21	0	0.00	5	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2	0	0.00	1	0	0.00				1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	15.	2	0	0.00	1	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	5	0	0.00	3	0	0.00				1	0	0.00	1	0	0.00
		Drinking Water	50.	5	0	0.00	3	0	0.00				1	0	0.00	1	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	3	0	0.00	3	0	0.00									
		Drinking Water	50.	3	0	0.00	3	0	0.00									
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	2	1	0.50	1	0	0.00				1	1	1.00			
38932	CHLORPYRIFOS, TOTAL RECOVERABLE	Fresh Acute	0.083	1	0	0.00										1	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	1	0	0.00										1	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			
82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVER	Drinking Water	4.	1	0	0.00										1	0	0.00
82587	ALDICARB SULFONE, WHOLE WATER, TOTAL REC	Drinking Water	2.	1	0	0.00										1	0	0.00
82613	OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	Drinking Water	200.	1	0	0.00										1	0	0.00
82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERAB	Drinking Water	40.	1	0	0.00										1	0	0.00
82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	Drinking Water	3.	1	0	0.00										1	0	0.00

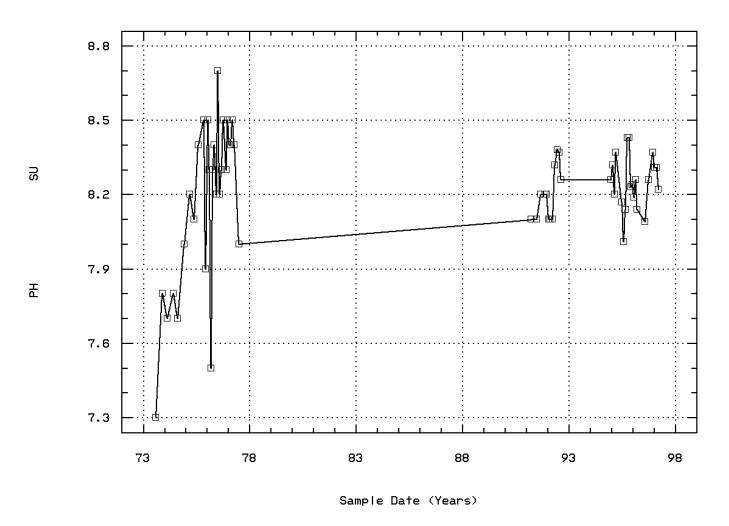
[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: COLM0013 Parameter Code: 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)

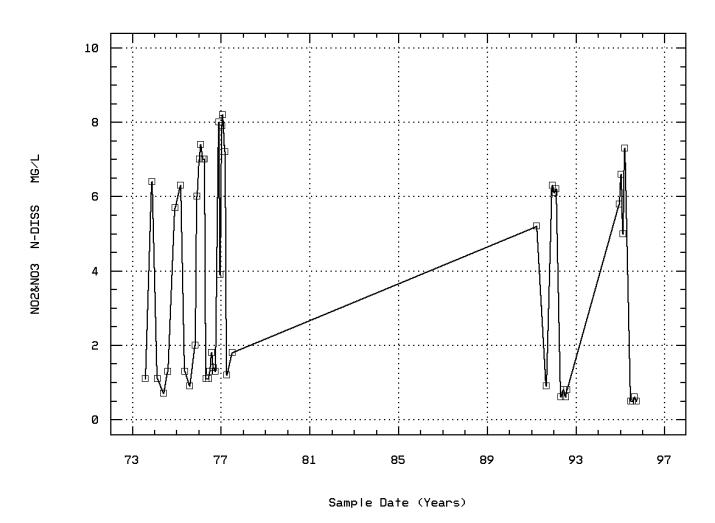
(X 1000)



Station: COLM0013 Parameter Code: 00400
PH (STANDARD UNITS)

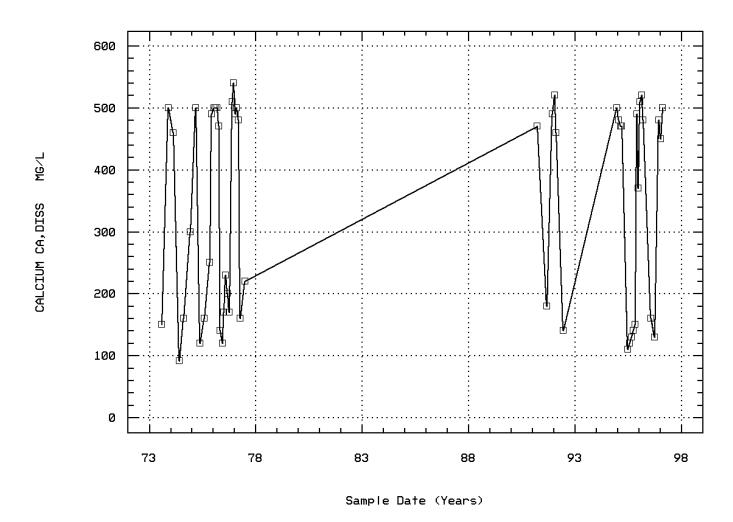


Station: COLM0013 Parameter Code: 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/



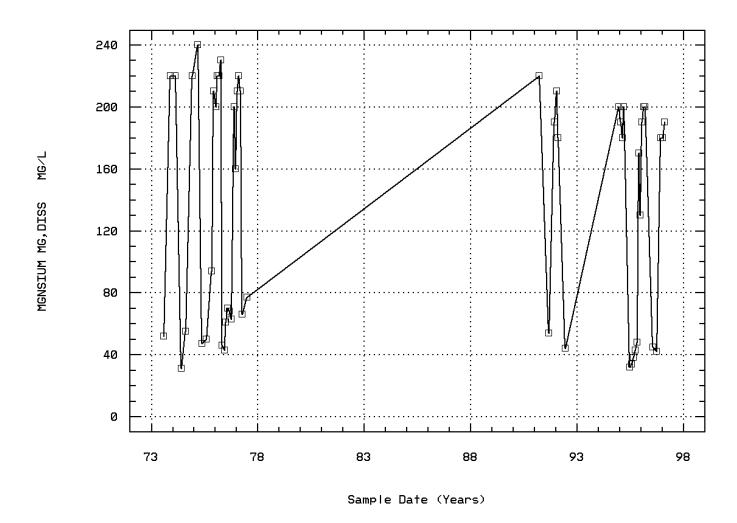
LEACH CREEK AT DURHAM, CO.

Station: COLM0013 Parameter Code: 00915
CALCIUM, DISSOLVED (MG/L AS CA)

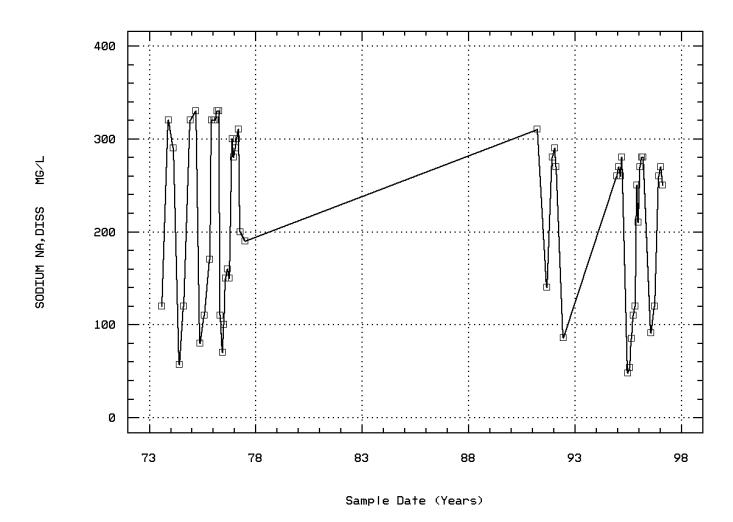


LEACH CREEK AT DURHAM, CO.

Station: COLM0013 Parameter Code: 00925 MAGNESIUM, DISSOLVED (MG/L AS MG)

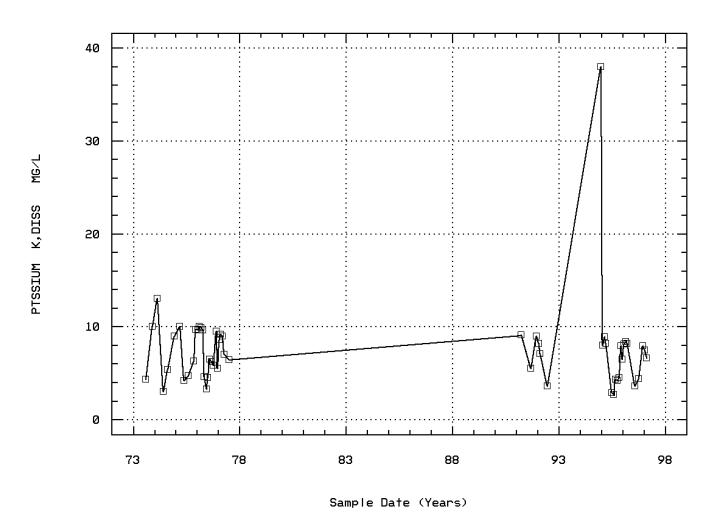


Station: COLM0013 Parameter Code: 00930 SODIUM, DISSOLVED (MG/L AS NA)

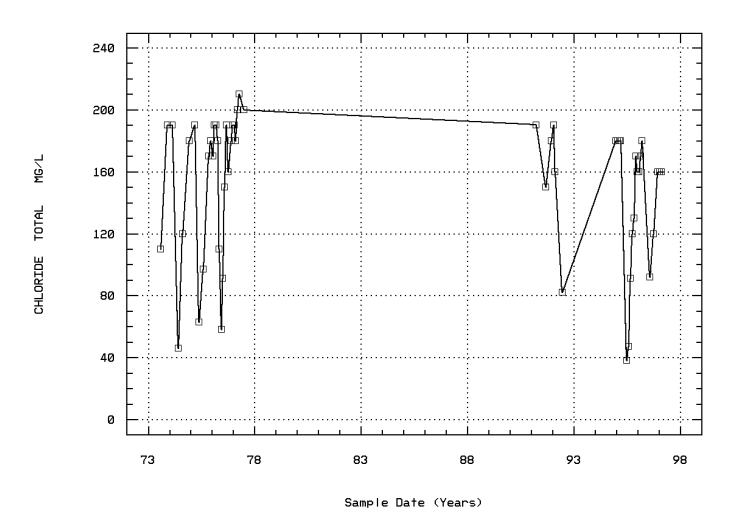


LEACH CREEK AT DURHAM, CO.

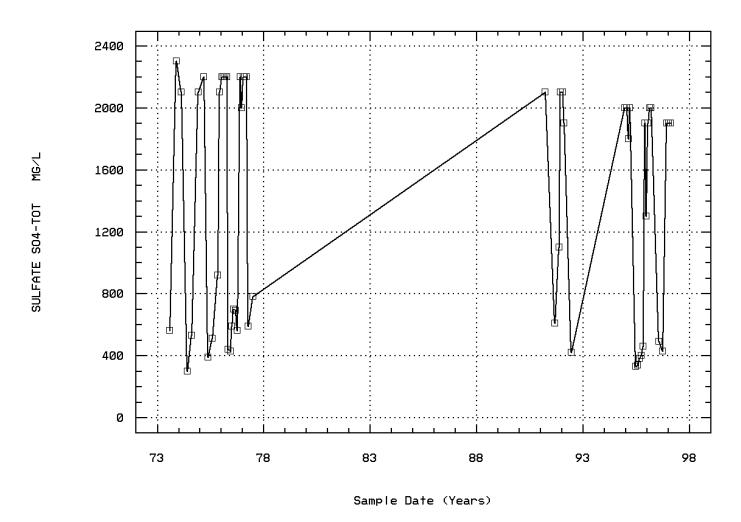
Station: COLM0013 Parameter Code: 00935
POTASSIUM, DISSOLVED (MG/L AS K)



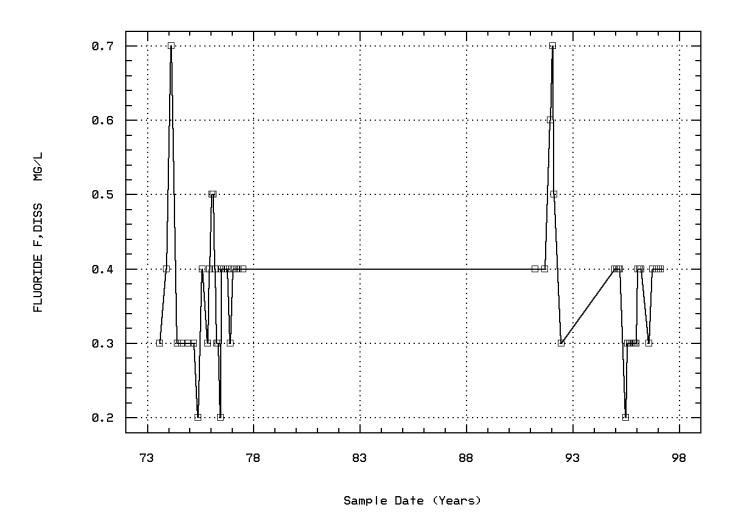
Station: COLM0013 Parameter Code: 00940 CHLORIDE, TOTAL IN WATER



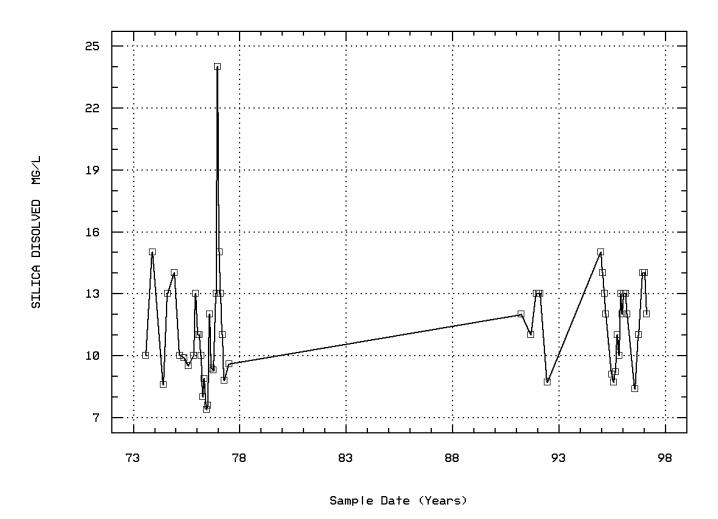
Station: COLM0013 Parameter Code: 00945 SULFATE, TOTAL (MG/L AS S04)



Station: COLM0013 Parameter Code: 00950 FLUORIDE, DISSOLVED (MG/L AS F)



Station: COLM0013 Parameter Code: 00955 SILICA, DISSOLVED (MG/L AS SI02)



Annual Analysis for 1973 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	9	17.	14.5	19.	3.5	26.313	5.13	3.5	11.25	18.5	19.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	2	2715.	2715.	3930.	1500. 2	2952450.	1718.269	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1974 - Station COLM0013

Paramete	er	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	4	9.5	10.	18.	3.	58.	7.616	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	4	2820.	2701.5	4220.	946.	2797502.333	1672.574	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1975 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimun	n Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	5	10.5	10.3	21.	4.	47.325	6.879	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/07/73-03/10/97	4	2945.	3012.5	5000.	1160.	3761025.	1939.336	**	**	**	**

^{**-} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1976 - Station COLM0013

Paramete	er	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	12	13.	11.458	21.5	2.	60.703	7.791	2.45	3.5	19.	21.35
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/07/73-03/10/97	10	1940.	2750.	5000.	1200.	2277533.333	1509.15	1210.	1450.	4315.	4960.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1977 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	8	8.25	9.375	18.	0.5	35.982	5.999	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	8	3500.	3228.75	4400.	1690.	1090783.929	1044.406	**	**	**	**

^{**-} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	11	16.	13.545	23.	0.5	68.623	8.284	1.4	5.	23.	23.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	11	1900.	2515.455	4200.	1090.	1565487.273	1251.194	1112.	1250.	3700.	4140.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimur	n Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	7	10.5	12.214	20.	2.	40.571	6.37	**	**	**	**
00095p	SPECIFIC CONDUCTANCÈ (UMHOS/CM @ 25C)	08/07/73-03/10/97	6	1375.	2055.	4500.	680.	2167350.	1472.192	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1980 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	2	9.75	9.75	12.	7.5	10.125	3.182	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	2	3400.	3400.	4600.	2200. 2	2880000.	1697.056	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station COLM0013

Paramete	er	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	10	12.25	11.7	20.5	3.	39.678	6.299	3.25	5.875	18.125	20.3
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	10	2000.	2615.	4400.	1050.	1634472.222	1278.465	1090.	1562.5	3975.	4380.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1982 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimun	n Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	8	8.5	10.5	18.	4.	31.929	5.651	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/07/73-03/10/97	8	2650.	2906.25	5000.	1000.	3578883.929	1891.794	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1983 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	7	11.	11.571	19.5	4.	33.869	5.82	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/07/73-03/10/97	6	1540.	2400.333	5250.	872.	3309056.667	1819.081	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Nariance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	5	10.5	11.7	19.	5.	46.075	6.788	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/07/73-03/10/97	5	3630.	2926.	3990.	1360.	1624630.	1274.61	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1992 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	7	16.5	12.429	21.5	0.5	74.119	8.609	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	7	1820.	2484.286	3860.	1370.	1548361.905	1244.332	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1994 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/07/73-03/10/97	1	3950.	3950.	3950.	3950.	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1995 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	10	7.5	10.25	20.8	4.	39.403	6.277	4.02	4.275	16.875	20.49
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	10	2320.	2498.3	4000.	993.	1725235.567	1313.482	998.7	1260.	3855.	3990.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1996 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	6	7.05	9.483	21.4	4.1	45.35	6.734	**	**	**	**
00095p	SPECIFIC CONDUCTANCÈ (UMHOS/CM @ 25C)	08/07/73-03/10/97	6	3710.	3033.333	3970.	1450.	1505946.667	1227.17	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

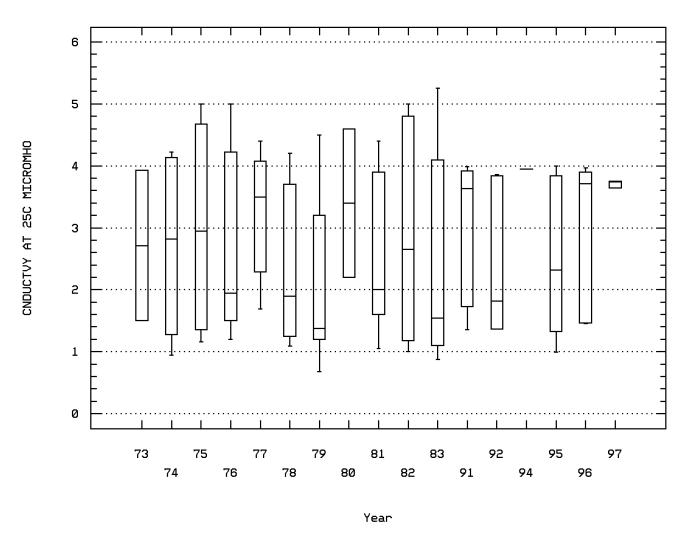
Annual Analysis for 1997 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	3	4.6	4.367	5.	3.5	0.603	0.777	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	3	3740.	3710.	3750.	3640.	3700.	60.828	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: COLM0013 Parameter Code: 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)





Seasonal Analysis for Season #1: 7/15 to 10/19 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	26	18.75	18.319	23.	12.5	8.897	2.983	13.2	16.75	20.85	21.95
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/74-03/10/97	12	49.	49.333	62.	35.	71.515	8.457	36.2	44.	54.75	62.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	24	1575.	1651.25	2400.	1050.	90863.587	301.436	1315.	1427.5	1872.5	2025.
00300p	OXYGEN, DISSOLVED MG/L	08/07/73-08/10/92	9	7.9	8.4	11.2	7.5	1.347	1.161	7.5	7.65	8.85	11.2
00400p	PH (STANDARD UNITS)	08/07/73-03/10/97	14	8.23	8.154	8.5	7.3	0.101	0.318	7.5	8.07	8.378	8.465
00400p	CONVERTED PH (STANDARD UNITS)	08/07/73-03/10/97	14	8.229	8.003	8.5	7.3	0.125	0.354	7.5	8.07	8.378	8.465
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/73-03/10/97	14	0.006	0.01	0.05	0.003	0.	0.012	0.003	0.004	0.009	0.035
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/07/73-09/27/95	12	0.9	0.975	1.8	0.5	0.169	0.411	0.5	0.6	1.3	1.68
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/73-02/05/97	12	160.	160.833	230.	120.	990.152	31.467	123.	132.5	177.5	221.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/73-02/05/97	12	51.	51.167	70.	34.	132.697	11.519	35.2	42.25	61.	69.4
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/07/73-02/05/97	12	120.	117.5	160.	54.	940.636	30.67	63.3	95.75	147.5	157.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/07/73-02/05/97	12	4.55	4.8	6.5	2.7	1.235	1.111	2.97	4.225	5.725	6.41
00940p	CHLORIDE, TOTAL IN WATER MG/L	08/07/73-02/05/97	12	120.	120.583	190.	47.	1443.538	37.994	60.2	93.25	150.	181.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/07/73-02/05/97	12	520.	516.667	700.	340.	13460.606	116.02	352.	407.5	597.5	697.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	08/07/73-02/05/97	12	0.35	0.35	0.4	0.3	0.003	0.052	0.3	0.3	0.4	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/07/73-02/05/97	12	9.75	10.208	13.	8.4	1.952	1.397	8.49	9.225	11.	12.7

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/20 to 1/14 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	27	5.	5.67	12.	0.5	8.371	2.893	1.7	4.	7.5	10.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/74-03/10/97	15	9.	11.867	54.	0.	144.838	12.035	4.2	8.	11.	29.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	26	3890.	3739.615	5000.	1250.	856131.846	925.274	2017.	3597.5	4265.	5000.
00300p	OXYGEN, DISSOLVED MG/L	08/07/73-08/10/92	9	12.5	12.789	15.6	9.1	4.781	2.187	9.1	11.25	15.05	15.6
00400p	PH (STANDARD UNITS)	08/07/73-03/10/97	16	8.25	8.24	8.5	7.8	0.044	0.209	7.87	8.125	8.415	8.5
00400p	CONVERTED PH (STANDARD UNITS)	08/07/73-03/10/97	16	8.25	8.189	8.5	7.8	0.046	0.215	7.87	8.125	8.415	8.5
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/73-03/10/97	16	0.006	0.006	0.016	0.003	0.	0.004	0.003	0.004	0.008	0.014
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/07/73-09/27/95	10	6.05	5.72	8.	2.	2.78	1.667	2.19	5.25	6.55	7.9
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/73-02/05/97	15	490.	436.	540.	150.	13268.571	115.189	210.	370.	500.	528.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/73-02/05/97	15	190.	174.133	220.	48.	2400.267	48.993	75.6	160.	210.	220.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/07/73-02/05/97	15	280.	264.667	320.	120.	3412.381	58.416	150.	250.	320.	320.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/07/73-02/05/97	15	8.2	9.94	38.	4.5	62.943	7.934	5.1	6.5	9.6	21.2
00940p	CHLORIDE, TOTAL IN WATER MG/L	08/07/73-02/05/97	15	180.	172.667	190.	130.	249.524	15.796	148.	160.	180.	190.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/07/73-02/05/97	16	2000.	1786.25	2300.	460.	289798.333	538.329	782.	1450.	2100.	2230.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	08/07/73-02/05/97	14	0.4	0.4	0.7	0.3	0.015	0.124	0.3	0.3	0.425	0.65
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/07/73-02/05/97	15	13.	13.6	24.	10.	10.686	3.269	10.	12.	14.	18.6

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 1/15 to 5/31 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	46	7.5	8.311	18.5	0.5	24.586	4.958	3.	4.075	11.125	16.65
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/74-03/10/97	22	6.	11.773	48.	5.	184.089	13.568	5.	5.	7.25	43.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	39	3900.	3276.308	5250.	680.	1796166.429	1340.211	1160.	1660.	4100.	4600.
00300p	OXYGEN, DISSOLVED MG/L	08/07/73-08/10/92	15	11.2	11.227	14.4	7.7	4.579	2.14	8.36	9.2	12.7	14.4
00400p	PH (STANDARD UNITS)	08/07/73-03/10/97	24	8.24	8.193	8.5	7.5	0.056	0.236	7.75	8.1	8.358	8.4
00400p	CONVERTED PH (STANDARD UNITS)	08/07/73-03/10/97	24	8.24	8.113	8.5	7.5	0.063	0.25	7.75	8.1	8.357	8.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/73-03/10/97	24	0.006	0.008	0.032	0.003	0.	0.006	0.004	0.004	0.008	0.018
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/07/73-09/27/95	18	6.25	4.85	8.2	0.6	8.486	2.913	0.69	1.175	7.225	7.93
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/73-02/05/97	21	480.	417.667	520.	91.	21156.333	145.452	124.	460.	500.	508.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/73-02/05/97	21	200.	176.667	240.	31.	4400.433	66.336	46.2	180.	220.	228.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/07/73-02/05/97	21	280.	257.952	330.	57.	6396.048	79.975	86.	255.	310.	330.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 1/15 to 5/31 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/07/73-02/05/97	21	8.4	8.129	13.	3.	4.933	2.221	4.28	7.05	9.4	10.
00940p	CHLORIDE, TOTAL IN WATER MG/L	08/07/73-02/05/97	21	180.	166.619	210.	46.	1799.248	42.418	72.4	160.	190.	198.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/07/73-02/05/97	21	2000.	1753.333	2200.	300.	449803.333	670.674	400.	1850.	2200.	2200.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	08/07/73-02/05/97	21	0.4	0.395	0.7	0.2	0.009	0.097	0.3	0.35	0.4	0.5
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/07/73-02/05/97	20	12.	11.41	15.	8.	3.835	1.958	8.62	9.925	13.	13.9

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

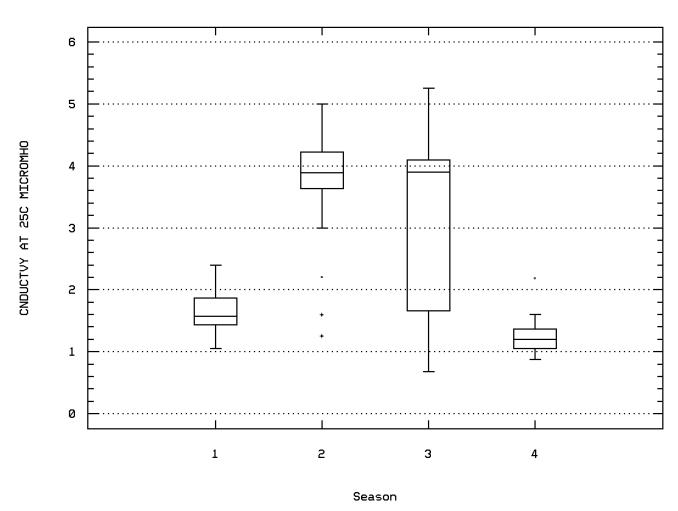
Seasonal Analysis for Season #4: 6/01 to 7/14 - Station COLM0013

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/73-03/10/97	16	18.	17.631	23.	12.5	8.069	2.841	12.85	15.625	19.	21.95
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/74-03/10/97	6	39.	38.	48.	21.	96.4	9.818	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-03/10/97	14	1200.	1276.071	2180.	872.	110878.225	332.984	932.5	1037.5	1402.5	1890.
00300p	OXYGEN, DISSOLVED MG/L	08/07/73-08/10/92	4	7.85	7.8	8.2	7.3	0.18	0.424	**	**	**	**
00400p	PH (STANDARD UNITS)	08/07/73-03/10/97	6	8.185	8.258	8.7	8.	0.063	0.25	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/07/73-03/10/97	6	8.185	8.208	8.7	8.	0.066	0.256	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/73-03/10/97	6	0.007	0.006	0.01	0.002	0.	0.003	**	**	**	**
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/07/73-09/27/95	5	1.1	1.1	1.8	0.5	0.245	0.495	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/73-02/05/97	5	140.	152.	220.	110.	1970.	44.385	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/73-02/05/97	5	44.	51.4	77.	32.	312.3	17.672	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/07/73-02/05/97	5	86.	98.8	190.	48.	2973.2	54.527	**	**	**	**
00935p	POTASSÍUM, DISSOLVED (MG/L AS K)	08/07/73-02/05/97	5	3.6	4.14	6.4	2.9	1.943	1.394	**	**	**	**
00940p	CHLORIDE, TOTAL IN WATER MG/L	08/07/73-02/05/97	5	82.	93.8	200.	38.	3955.2	62.89	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/07/73-02/05/97	5	430.	510.	780.	330.	31550.	177.623	**	**	**	**
00950p	FLUORIDÉ, DISSOÙVED (MG/L ÁS F)	08/07/73-02/05/97	5	0.3	0.3	0.4	0.2	0.01	0.1	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/07/73-02/05/97	5	8.7	8.48	9.6	7.4	0.907	0.952	**	**	**	**

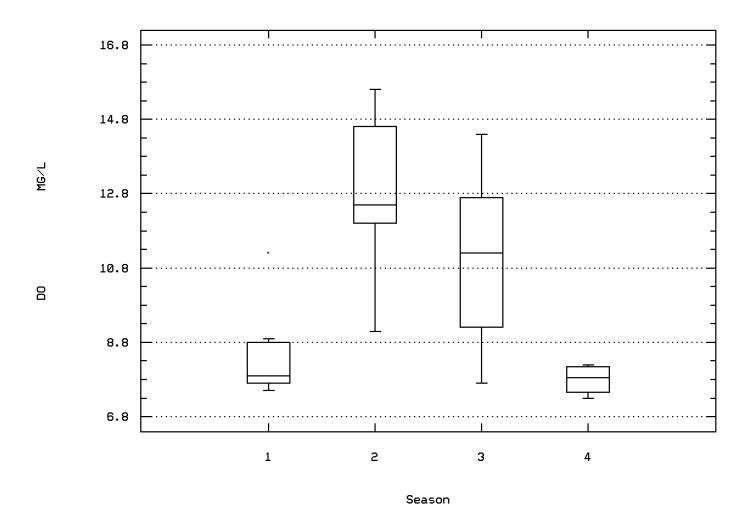
^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: COLM0013 Parameter Code: 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)

(X 1000)

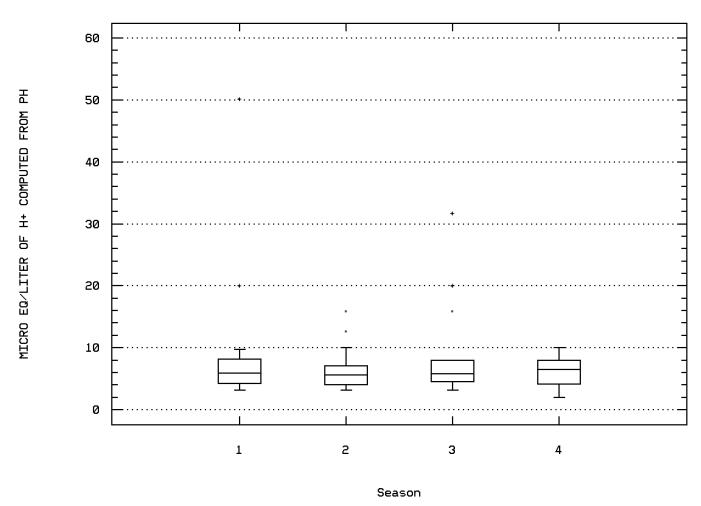


Station: COLM0013 Parameter Code: 00300
OXYGEN, DISSOLVED

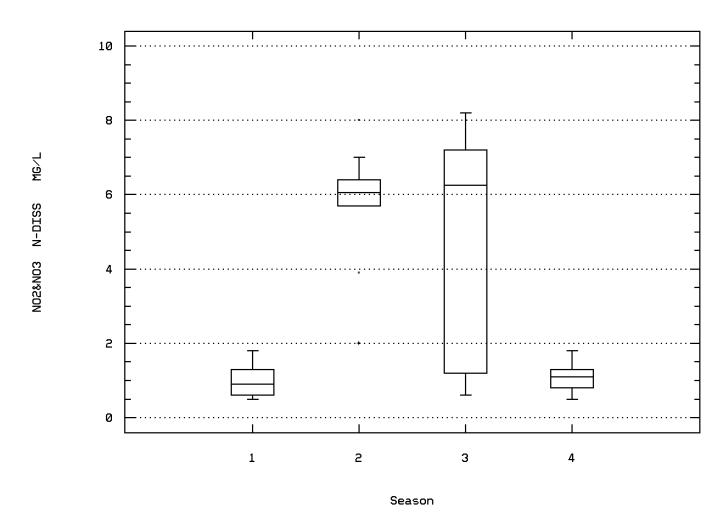


Station: COLM0013 Parameter Code: 00400 MICRO EQ/LITER OF H+ COMPUTED FROM PH

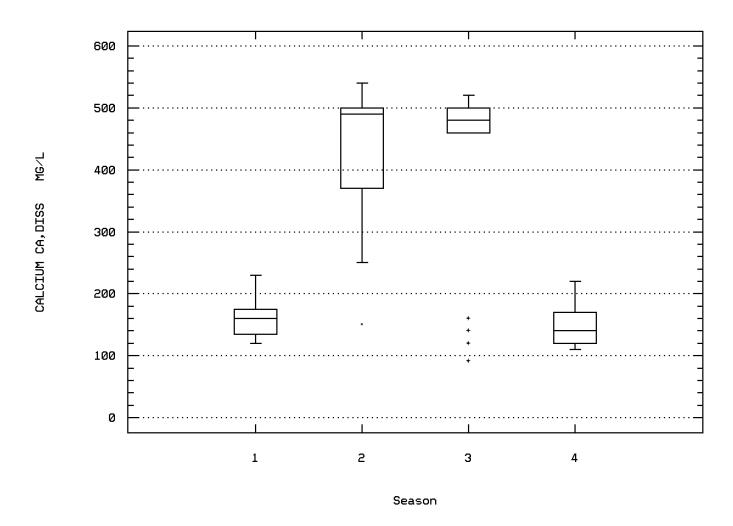




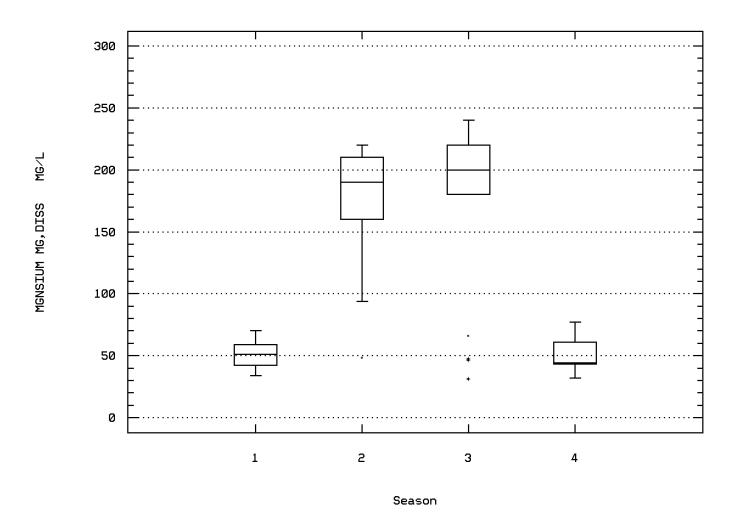
Station: COLM0013 Parameter Code: 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/



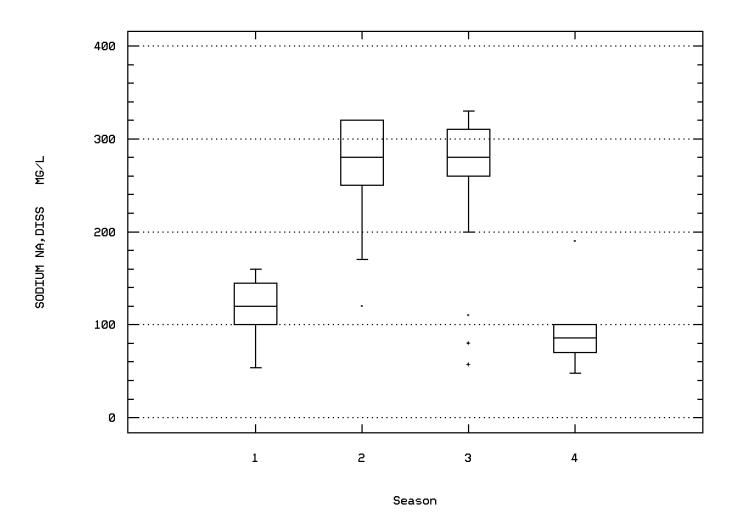
Station: COLM0013 Parameter Code: 00915 CALCIUM, DISSOLVED (MG/L AS CA)



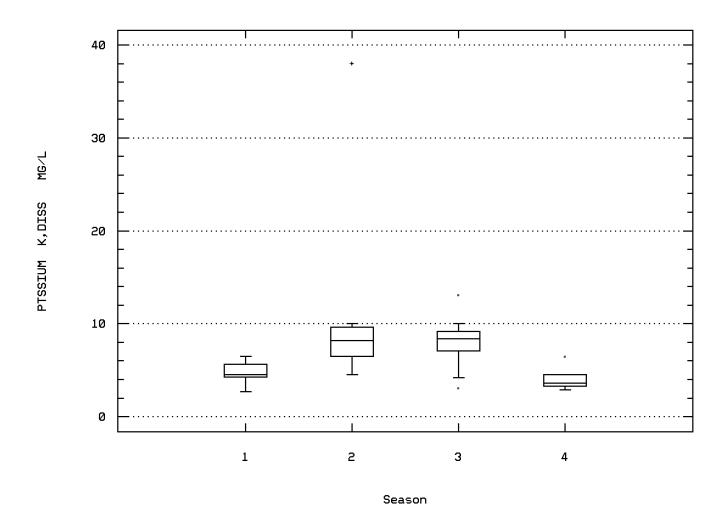
Station: COLM0013 Parameter Code: 00925 MAGNESIUM, DISSOLVED (MG/L AS MG)



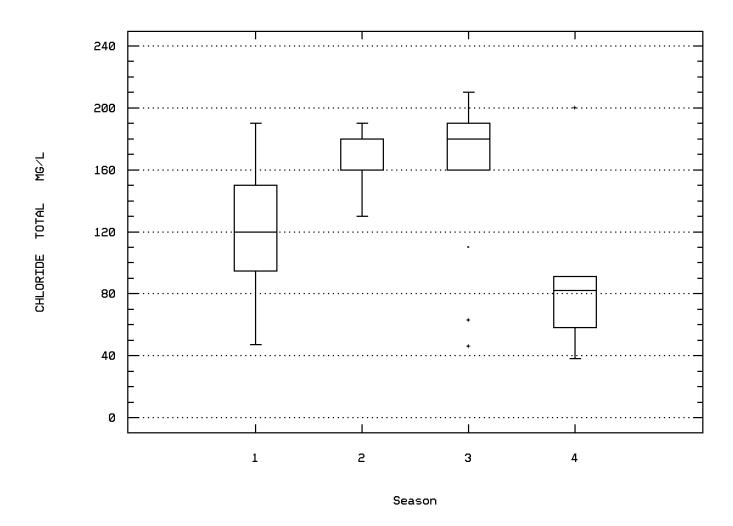
Station: COLM0013 Parameter Code: 00930 SODIUM, DISSOLVED (MG/L AS NA)



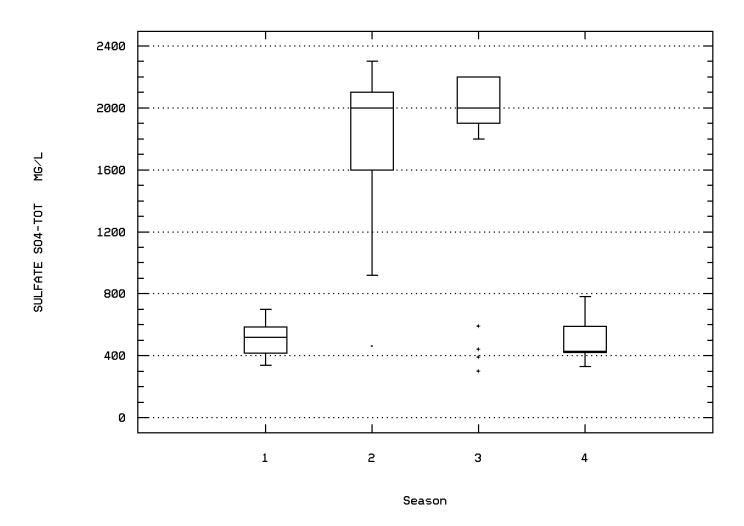
Station: COLM0013 Parameter Code: 00935 POTASSIUM, DISSOLVED (MG/L AS K)



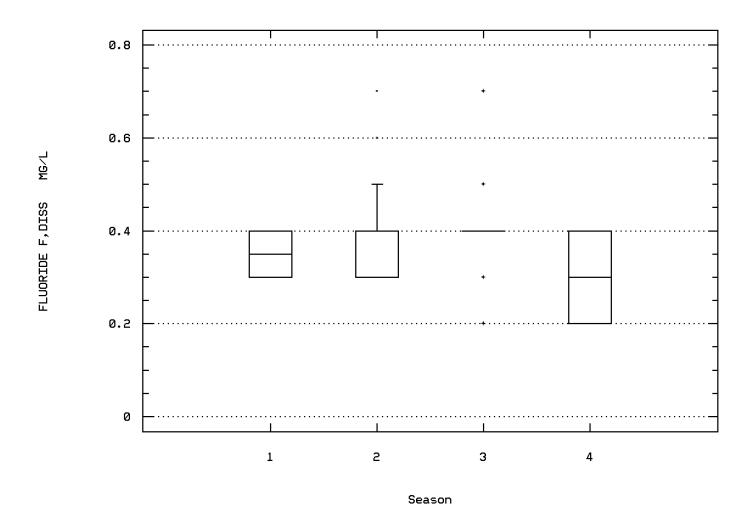
Station: COLM0013 Parameter Code: 00940 CHLORIDE, TOTAL IN WATER



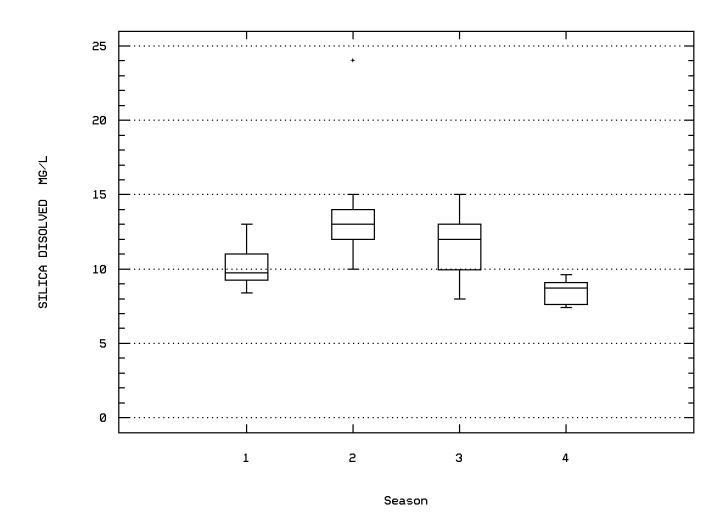
Station: COLM0013 Parameter Code: 00945 SULFATE, TOTAL (MG/L AS SO4)



Station: COLM0013 Parameter Code: 00950 FLUORIDE, DISSOLVED (MG/L AS F)



Station: COLM0013 Parameter Code: 00955 SILICA, DISSOLVED (MG/L AS SI02)



NPS Station ID: COLM0014 Location: LEACH CRK.AT DURHAM,CO. Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Hides: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO R. RFI Index: 14010005009

RF3 Index: 14010005028000.00

Description:

LAT/LON: 39.090838/-108.606949

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 10.020

RF3 Mile Point: 0.00

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010170 /GV170 /09152650 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.06

On/Off RF1: OFF On/Off RF3:

Date Created: 08/28/82

Parameter Inventory for Station: COLM0014

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 90th

****** No Parameter Data Available for this Station *******

NPS Station ID: COLM0015 Location: LIMEKILN GULCH NEAR MOUTH

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes: RMI-Miles: HUC: 14010005

Major Basin: Minor Basin: RF1 Index: 14010005

RF3 Index: 14010005065400.00 Description:

LAT/LON: 39.091392/-108.648337

Depth of Water: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 1.73

Elevation: 0

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390529108385401 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 2.20 Distance from RF3: 0.28

On/Off RF1: On/Off RF3:

Date Created: 05/30/92

Parameter Inventory for Station: COLM0015

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/06/92-02/06/92	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/06/92-02/06/92	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	02/06/92-02/06/92	1	651.	651.	651.	651.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/06/92-02/06/92	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @) 25C)	02/06/92-02/06/92	ĺ	2740.	2740.	2740.	2740.	Õ.	Õ.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	02/06/92-02/06/92	1	10.6	10.6	10.6	10.6	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	02/06/92-02/06/92	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/06/92-02/06/92	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/06/92-02/06/92	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00403	PH. LAB. STANDARD UNITS SU	02/06/92-02/06/92	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/06/92-02/06/92	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/06/92-02/06/92	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	02/06/92-02/06/92	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/06/92-02/06/92	ĺ	180.	180.	180.	180.	Õ.	Õ.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/06/92-02/06/92	1	140.	140.	140.	140.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/06/92-02/06/92	i	330.	330.	330.	330.	Õ.	Ö.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/06/92-02/06/92	i	8.	8.	8.	8.	0.	0.	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	02/06/92-02/06/92	i	63.	63.	63.	63.	Õ.	0	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/06/92-02/06/92	i	1200.	1200.	1200.	1200.	0	0	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/06/92-02/06/92	i	11	11	11	11	Ö.	Ö.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	02/06/92-02/06/92	i	28.	28.	28.	28.	ő.	ő.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	02/06/92-02/06/92	i	530.	530.	530.	530.	Õ.	Õ.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.	7/15-10/19				-10/20-1/14			1/15-5/31-			6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00						-	1	0	0.00			
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

				Total	Exceed	Prop.		-7/15-10/19)		10/20-1/14			1/15-5/31-			6/01-7/14	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	$0.0\bar{0}$			-				1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00							1	1	1.00			
00950	FLUORIDÉ, DISSOÈVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0016 LAT/LON: 39.0 Location: INDEPENDENT RANCHMENS DITCH ABOVE LEACH CREEK LAT/LON: 39.091670/-108.606393

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes: RMI-Miles:

HUC: 14010005 Depth of Water: 0 Major Basin: Elevation: 0 Minor Basin:

RF1 Index: 14010005 RF1 Mile Point: 0.000 RF3 Index: 14010005136900.00 RF3 Mile Point: 0.29

Description:

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390530108362301 Within Park Boundary: No

Aquifer: Water Body Id:

ECO Region:
Distance from RF1: 5.30
Distance from RF3: 0.03

On/Off RF1: On/Off RF3:

Date Created: 05/30/92

Parameter Inventory for Station: COLM0016

Paramete	or .	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/06/92-02/06/92	1	7	7	7	7	0	n	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/06/92-02/06/92	i	3	3	3	3	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	02/06/92-02/06/92	i	651.	651.	651.	651.	0.	0.	**	**	**	**
00023	FLOW, STREAM, INSTANTANEOUS CFS	02/06/92-02/06/92	1	2	2	2	2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/06/92-02/06/92	i	3470.	3470.	3470.	3470.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	02/06/92-02/06/92	i	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	02/06/92-02/06/92	i	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/06/92-02/06/92	i	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/06/92-02/06/92	i	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00403	PH. LAB. STANDARD UNITS SU	02/06/92-02/06/92	i	8	8	8	8	0.	0.	**	**	**	**
00403	CONVERTED PH. LAB. STANDARD UNITS	02/06/92-02/06/92	i	8	8	8	8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/06/92-02/06/92	i	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	02/06/92-02/06/92	i	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/06/92-02/06/92	i	410.	410.	410.	410.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/06/92-02/06/92	i	150.	150.	150.	150.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/06/92-02/06/92	i	270.	270.	270.	270.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/06/92-02/06/92	i	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	02/06/92-02/06/92	i	170.	170.	170.	170.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/06/92-02/06/92	i	1700.	1700.	1700.	1700.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/06/92-02/06/92	i	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	02/06/92-02/06/92	i	14.	14.	14.	14.	0	ő.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	02/06/92-02/06/92	i	290.	290.	290.	290.	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.	7/15-10/19				-10/20-1/14			1/15-5/31-			6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00						-	1	0	0.00			
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

				Total	Exceed	Prop.		-7/15-10/19)		10/20-1/14			1/15-5/31-			6/01-7/14	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	$0.0\bar{0}$			-				1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00							1	1	1.00			
00950	FLUORIDÉ, DISSOÈVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0017 LAT/LON: 39.093893/-108.645838 Location: LIMEKILN GULCH AT MOUTH NR GRAND JUNCTION CO.

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Hidexes: RMI-Miles: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RFI Index: 14010005009

RF3 Index: 14010005060400.00

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 11.840 RF3 Mile Point: 0.00

Description:

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010191 /GV0191 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.10

On/Off RF1: OFF On/Off RF3:

Date Created: 08/28/82

Parameter Inventory for Station: COLM0017

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 25th 90th

****** No Parameter Data Available for this Station *******

NPS Station ID: COLM0018 Location: COLORADO RIVER BELOW REDLANDS CANAL LAT/LON: 39.101670/-108.644448

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14010005 Depth of Water: 0 Major Basin: Elevation: 0 Minor Basin:

RF1 Index: 14010005009 RF1 Mile Point: 7.840 RF3 Index: 14010005062400.00 RF3 Mile Point: 0.00

Description:

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390606108384000 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.02

On/Off RF1: ON On/Off RF3:

Date Created: 01/25/77

Parameter Inventory for Station: COLM0018

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/09/76-11/11/76	9	7.	6.556	7.5	5.5	0.528	0.726	5.5	5.75	7.	7.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/09/76-11/11/76	9	1220.	1194.444	1260.	1070.	3896.528	62.422	1070.	1150.	1237.5	1260.
00300	OXYGEN, DISSOLVED MG/L	11/09/76-11/11/76	9	10.4	10.511	11.7	9.7	0.511	0.715	9.7	9.9	11.1	11.7
00400	PH (STANDARD UNITS)	11/09/76-11/11/76	9	8.5	8.489	8.6	8.4	0.009	0.093	8.4	8.4	8.6	8.6
00400	CONVERTED PH (STANDARD UNITS)	11/09/76-11/11/76	9	8.5	8.48	8.6	8.4	0.009	0.093	8.4	8.4	8.6	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/09/76-11/11/76	9	0.003	0.003	0.004	0.003	0.	0.001	0.003	0.003	0.004	0.004
00600	NITROGEN, TOTAL (MG/L AS N)	11/09/76-11/11/76	9	1.1	0.937	1.3	0.33	0.122	0.349	0.33	0.635	1.25	1.3
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/09/76-11/11/76	9	0.5	0.489	0.69	0.12	0.032	0.178	0.12	0.395	0.635	0.69
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/76-11/11/76	9	0.01	0.016	0.05	0.005	0.	0.017	0.005	0.005	0.025	0.05
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/76-11/11/76	9	0.5	0.502	0.73	0.12	0.036	0.189	0.12	0.4	0.66	0.73
00630	NITRITE PLUS NITRATÉ, TOTAL 1 DET. (MG/L AS N)	11/09/76-11/11/76	9	0.51	0.43	0.73	0.02	0.071	0.266	0.02	0.135	0.65	0.73
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/76-11/11/76	9	0.05	0.051	0.09	0.03	0.	0.018	0.03	0.04	0.06	0.09
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/09/76-11/11/76	9	0.02	0.023	0.05	0.005	0.	0.016	0.005	0.008	0.035	0.05
71887	NITROGEN, TOTAL, AS NO3 - MG/L	11/09/76-11/11/76	9	4.8	4.133	5.8	1.5	2.317	1.522	1.5	2.8	5.4	5.8

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-7/15-10/19			10/20-1/14-			1/15-5/31-			6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	$0.0\bar{0}$			-	9	0	0.00			-			
00400	PH	Fresh Chronic	9.	9	0	0.00				9	0	0.00						
		Other-Lo Lim.	6.5	9	0	0.00				9	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00				9	0	0.00						

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0019 LAT/LON: 39.103615/-108.633337 Location: APPLETON DRAIN NR MOUTH GRAND JUNCTION, CO.

Station Type: /CANAL/TYPA/AMBNT RMI-Indexes:

RMI-Hidexes: RMI-Miles: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RFI Index: 14010005009

RF3 Index: 14010005000906.46

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 8.300 RF3 Mile Point: 6.62

Description:

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010190 /GV0190 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.24

On/Off RF1: OFF On/Off RF3:

Date Created: 08/28/82

Parameter Inventory for Station: COLM0019

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 90th

****** No Parameter Data Available for this Station *******

NPS Station ID: COLM0020 Location: APPLETON DRAIN AT RIVER ROAD Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14010005 Major Basin:

Minor Basin:

RF1 Index: 14010005 RF3 Index: 14010005064700.00

Description:

LAT/LON: 39.103615/-108.633615

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390613108380101 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 7.50 Distance from RF3: 0.33

On/Off RF1: On/Off RF3:

Date Created: 10/05/91

Parameter Inventory for Station: COLM0020

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/28/91-02/06/92	2	7.	7.	8.	6.	2.	1.414	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/91-02/06/92	4	11.75	12.	24.5	0.	130.5	11.424	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/21/91-02/06/92	3	649.	645.333	651.	636.	66.333	8.145	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/21/91-02/06/92	3	10.	7.133	11.	0.4	34.253	5.853	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	03/21/91-02/06/92	4	2665.	2567.5	4110.	830.	2993891.667	1730.287	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/21/91-02/06/92	3	10.3	9.2	10.6	6.7	4.71	2.17	**	**	**	**
00400	PH (STANDARD UNITS)	03/21/91-02/06/92	4	8.15	8.15	8.2	8.1	0.003	0.058	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/21/91-02/06/92	4	8.147	8.147	8.2	8.1	0.003	0.058	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/91-02/06/92	4	0.007	0.007	0.008	0.006	0.	0.001	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/21/91-02/06/92	3	7.9	7.933	8.	7.9	0.003	0.058	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/21/91-02/06/92	3	7.9	7.931	8.	7.9	0.003	0.058	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/91-02/06/92	3	0.013	0.012	0.013	0.01	0.	0.001	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/21/91-08/28/91	2	0.055	0.055	0.09	0.02	0.002	0.049	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/28/91-08/28/91	1#	# 0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L ÁS N)	03/21/91-02/06/92	3	4.6	3.8	6.5	0.3	10.09	3.176	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/21/91-08/28/91	2#	# 0.023	0.023	0.04	0.005	0.001	0.025	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/21/91-02/06/92	3	490.	366.667	490.	120.	45633.333	213.62	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/21/91-02/06/92	3	190.	147.333	220.	32.	10201.333	101.002	**	**	**	**
00930	SODIUM. DISSOLVED (MG/L AS NA)	03/21/91-02/06/92	3	280.	233.333	300.	120.	9733.333	98.658	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/21/91-02/06/92	3	6.3	6.033	6.7	5.1	0.693	0.833	**	**	**	**
00940	CHLORIDE.TOTAL IN WATER MG/L	03/21/91-02/06/92	3	230.	203.333	230.	150.	2133.333	46.188	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/21/91-02/06/92	3	2000.	1716.667	2800.		1560833.333	1249.333	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/21/91-02/06/92	3	0.4	0.367	0.4	0.3	0.003	0.058	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/21/91-02/06/92	3	12.	12.667	15.	11.	4.333	2.082	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/21/91-08/28/91	2 #		0.75	i	0.5	0.125	0.354	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	03/21/91-02/06/92	3	320.	240.	320.	80.	19200.	138.564	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/21/91-08/28/91	2 #		0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/21/91-08/28/91	2 #		1.25	2.	0.5	1.125	1.061	**	**	**	**
01040	COPPER. DISSOLVED (UG/L AS CU)	03/21/91-08/28/91	2	1.	1.	Ī.	1.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/21/91-08/28/91	2 #	# 0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/21/91-08/28/91	2	7	7	8.	6	2	1.414	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	03/21/91-08/28/91	2	5.	5.	6.	4.	2.	1.414	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/21/91-08/28/91	2	10.	10.	10.	10.	0	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/28/91-08/28/91	ī	2.	2.	2.	2.	Ő.	Õ.	**	**	**	**
28011	URANIUM, NATURAL, TOTAL UG/L AS U	03/21/91-08/28/91	2	17.95	17.95	31.	4.9	340.605	18.455	**	**	**	**
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/21/91-08/28/91	2	2381.	2381.	3930.		4798802.	2190.617	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/21/91-08/28/91	2 #		0.125	0.2	0.05	0.011	0.106	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/21/91-08/28/91	2 "	5.65	5.65	9.8	1.5	34.445	5.869	**	**	**	**
	, , , , , , , , , , , , , , , , , , , ,		_										

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000 RF3 Mile Point: 5.51

				Total	Exceed	Prop.		7/15-10/19)		-10/20-1/14			-1/15-5/31			6/01-7/14	
Paramet		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed F	rop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	$0.0\bar{0}$	1	0	0.00			-	2	0	0.00			
00400	PH	Fresh Chronic	9.	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	3	0	0.00	1	0	0.00				2	0	0.00			
	,	Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00				2	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00				2	0	0.00			
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00				2	0	0.00			
	,	Drinking Water	250.	3	0	0.00	1	0	0.00				2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	3	1.00	ĺ	Ĭ	1.00				2	2	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	i	0	0.00				2	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	Õ	0.00	i	Õ	0.00				ī	Ŏ	0.00			
01000	THODAYC, BISCOLYES	Drinking Water	50.	2	ŏ	0.00	i	ŏ	0.00				i	ŏ	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	Õ	0.00	i	Õ	0.00				i	Ŏ	0.00			
01020	C. B. M. C. M., B. B. G. B. V. B. B.	Drinking Water	5	2	ŏ	0.00	i	ŏ	0.00				i	ŏ	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	$\bar{2}$	ŏ	0.00	i	ŏ	0.00				i	ŏ	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	Õ	0.00	i	Õ	0.00				i	Ŏ	0.00			
010.0	COTTEN, BIBBOT I EB	Drinking Water	1300.	2	ŏ	0.00	i	ŏ	0.00				i	ŏ	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	ŏ	0.00	i	ŏ	0.00				i	ŏ	0.00			
010.7	EE IB, BISCOL I EB	Drinking Water	15.	2	ŏ	0.00	i	ŏ	0.00				i	ŏ	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	ŏ	0.00	i	ŏ	0.00				i	ŏ	0.00			
01070	ZHVC, DIGGOEVED	Drinking Water	5000.	2	ŏ	0.00	i	ŏ	0.00				i	ŏ	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	ő	0.00	i	ő	0.00					Ū	0.00			
01113	SEEE/MOM, BISSOEVED	Drinking Water	50.	i	ő	0.00	i	ŏ	0.00									
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	2	1	0.50	1	Ŏ	0.00				1	1	1.00			
71890	MERCURY, DISSOLVED	Fresh Acute	24	2	0	0.00	1	0	0.00				1	0	0.00			
, 1070	MERCORT, DISSOCTED		2.7	2	0	0.00	1	0	0.00				1	ő	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0021 Location: NORTH POND AT WALTER WALKER SWA

LAT/LON: 39.104170/-108.647504

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 6.12

Station Type: /TYPA/AMBNT/LAKE

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390615108385101 Within Park Boundary: No

RMI-Indexes:

RMI-Miles: HUC: 14010005

Major Basin: Minor Basin:

RF1 Index: 14010005

Aquifer: Water Body Id: ECO Region: Distance from RF1: 8.10 Distance from RF3: 0.65

On/Off RF1: On/Off RF3:

Date Created: 02/24/96

RF3 Index: 14030001001504.67

Description:

Parameter Inventory for Station: COLM0021

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/95-08/08/95	2	23.65	23.65	24.	23.3	0.245	0.495	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	06/12/95-08/08/95	2	649.5	649.5	654.	645.	40.5	6.364	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/12/95-08/08/95	2	5895.	5895.	7640.	4150.	6090050.	2467.803	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/12/95-08/08/95	2	9.15	9.15	18.	0.3	156.645	12.516	**	**	**	**
00400	PH (STANDARD UNITS)	06/12/95-08/08/95	2	8.99	8.99	9.82	8.16	1.378	1.174	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/12/95-08/08/95	2	8.452	8.452	9.82	8.16	1.957	1.399	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/12/95-08/08/95	2	0.004	0.004	0.007	0.	0.	0.005	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/12/95-06/12/95	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/12/95-06/12/95	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/12/95-06/12/95	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/12/95-06/12/95	1	180.	180.	180.	180.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/12/95-06/12/95	1	440.	440.	440.	440.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/12/95-06/12/95	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
00935	POTASSÍUM, DISSOLVÈD (MG/L AS K)	06/12/95-06/12/95	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	06/12/95-06/12/95	1	710.	710.	710.	710.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/12/95-06/12/95	1	3500.	3500.	3500.	3500.	0.	0.	**	**	**	**
00950	FLUORIDÉ, DISSOÈVED (MG/L ÁS F)	06/12/95-06/12/95	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/12/95-06/12/95	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01145	SELENÍUM, DISSOLVED (UG/L AS ŚE)	08/08/95-08/08/95	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	08/08/95-08/08/95	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/12/95-08/08/95	2	12.5	12.5	15.	10.	12.5	3.536	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		7/15-10/19)		-10/20-1/14-			1/15-5/31-			6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	1	$0.5\bar{0}$	1	1	1.00			-			-	1	0	0.00
00400	PH	Fresh Chronic	9.	2	1	0.50	1	0	0.00							1	1	1.00
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00							1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	1	1	1.00										1	1	1.00
		Other-Lo Lim.	6.5	1	0	0.00										1	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00										1	0	0.00
		Drinking Water	250.	1	1	1.00										1	1	1.00

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

				Total	Exceed	Prop.		-7/15-10/19			-10/20-1/14			1/15-5/31			-6/01-7/14	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	$1.0\bar{0}$			-			-			-	1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00										1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
	·	Drinking Water	50.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0022

LAT/LON: 39.105003/-108.662504

Agency: 11NPSWRD FIPS State/County: 08077 COLORADO/MESA

Within Park Boundary: No

STORET Station ID(s): COLM_NURE_02 /3117492

Date Created: 08/08/98

Location: 125006

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles:

HUC: 14010005 Major Basin: COLORADO RIVER

Minor Basin: UPPER COLORADO RIVER

RF1 Index: 14010005 RF3 Index: 14030001001504.67 Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000 RF3 Mile Point: 6.12 Aquifer: Water Body Id: ECO Region:

Distance from RF1: 8.10 Distance from RF3: 0.65 On/Off RF1: On/Off RF3:

Description:

THE STATION IS LOCATED ON THE COLORADO NATIONAL MONUMENT CO 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE COLORADO NATIONAL MONUMENT PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT-GRADE NITRIC ACID PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: COLM0022

Parameter	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/77-08/13/77	1	16.5	16.5	16.5	16.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/13/77-08/13/77	1	205.	205.	205.	205.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/13/77-08/13/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/13/77-08/13/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/77-08/13/77	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/13/77-08/13/77	1	11.21	11.21	11.21	11.21	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-7/15-10/19			-10/20-1/14			1/15-5/31-			6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00			-			-			
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0023 Location: 039 SLASSON SPRING

Station Type: /TYPA/AMBNT/SPRING RMI-Indexes:

RMI-Miles: HUC: 14010005 Major Basin: Minor Basin:

RF1 Index: 14010005 RF3 Index: 14010005137000.22 Description:

LAT/LON: 39.110282/-108.668337

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000 RF3 Mile Point: 0.28

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390637108400601 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 1.10 Distance from RF3: 0.33

On/Off RF1: On/Off RF3:

Date Created: 04/14/78

Parameter Inventory for Station: COLM0023

Parameter	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/16/77-09/20/77	2	13.95	13.95	14.5	13.4	0.605	0.778	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/16/77-08/16/77	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/16/77-09/20/77	2	2250.	2250.	2500.	2000.	125000.	353.553	**	**	**	**
00400	PH (STANDARD UNITS)	08/16/77-09/20/77	2	6.95	6.95	7.4	6.5	0.405	0.636	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/16/77-09/20/77	2	6.75	6.75	7.4	6.5	0.485	0.697	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/16/77-09/20/77	2	0.178	0.178	0.316	0.04	0.038	0.195	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/16/77-09/20/77	2	122.	122.	218.	26.	18432.	135.765	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/16/77-09/20/77	2	345.	345.	350.	340.	50.	7.071	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/16/77-09/20/77	2	420.	420.	430.	410.	200.	14.142	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/16/77-09/20/77	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/16/77-09/20/77	2	6.75	6.75	7.	6.5	0.125	0.354	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/16/77-09/20/77	2	0.06	0.06	0.09	0.03	0.002	0.042	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/16/77-09/20/77	2	0.02	0.02	0.03	0.01	0.	0.014	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/16/77-09/20/77	2	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/16/77-09/20/77	2	790.	790.	800.	780.	200.	14.142	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/16/77-09/20/77	2	190.	190.	190.	190.	0.	0.	**	**	**	**
00925	MAGNESIÚM, DISSOLVÈD (MG/L AS MG)	08/16/77-09/20/77	2	160.	160.	160.	160.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/16/77-09/20/77	2	205.	205.	210.	200.	50.	7.071	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/16/77-09/20/77	2	2.65	2.65	2.7	2.6	0.005	0.071	**	**	**	**
00932	SODIUM, PERCENT	08/16/77-09/20/77	2	28.5	28.5	29.	28.	0.5	0.707	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/16/77-09/20/77	2	5.95	5.95	6.1	5.8	0.045	0.212	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	08/16/77-09/20/77	2	23.5	23.5	24.	23.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/16/77-09/20/77	2	1150.	1150.	1200.	1100.	5000.	70.711	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L ÁS F)	08/16/77-09/20/77	2	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/16/77-09/20/77	2	31.5	31.5	32.	31.	0.5	0.707	**	**	**	**
01046	IRON, ĎISSOLVED (ÙG/L AS FE)	08/16/77-09/20/77	2 #	# 17.5	17.5	30.	5.	312.5	17.678	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/16/77-09/20/77	2 #	# 4.5	4.5	5.	4.	0.5	0.707	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/16/77-09/20/77	2	2000.	2000.	2060.	1940.	7200.	84.853	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/16/77-08/16/77	1	0.56	0.56	0.56	0.56	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/16/77-09/20/77	2	2.72	2.72	2.8	2.64	0.013	0.113	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

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[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0024 LAT/LON: 39.112504/-108.650005 Location: PERSIGO WASH NR MOUTH NR GRAND JUNCTION, COLO

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Hidexes: RMI-Miles: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RFI Index: 14010005009

RF3 Index: 14010005136900.00

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 7.740 RF3 Mile Point: 0.28

Description:

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010200 /GV0200 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.05

On/Off RF1: OFF On/Off RF3:

Date Created: 08/28/82

Parameter Inventory for Station: COLM0024

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 90th

****** No Parameter Data Available for this Station *******

NPS Station ID: COLM0025 Location: PERSIGO WASH AT RIVER ROAD Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14010005 Major Basin: Minor Basin: RF1 Index: 14010005

RF3 Index: 14010005060400.00

Description:

LAT/LON: 39.112504/-108.650282

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390645108390101 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 4.50 Distance from RF3: 0.11

On/Off RF1: On/Off RF3:

Date Created: 10/05/91

Parameter Inventory for Station: COLM0025

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/28/91-09/22/93	5	13.	13.8	17.	13.	3.2	1.789	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/91-09/22/93	7	19.	15.286	21.5	2.	63.155	7.947	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/21/91-02/03/92	3	649.	645.667	652.	636.	72.333	8.505	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CÉS	03/21/91-09/22/93	7	35.	35.857	69.	3.	681.143	26.099	**	**	**	**
00095	SPECIFIC CONDÚCTANCE (UMHOS/CM @, 25C)	03/21/91-09/22/93	7	1420.	2312.857	4670.	1040.	2527290.476	1589.745	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/21/91-02/03/92	3	10.	9.767	12.	7.3	5.563	2.359	**	**	**	**
00400	PH (STANDARD UNITS)	03/21/91-09/22/93	7	8.2	8.229	8.45	8.	0.019	0.139	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/21/91-09/22/93	7	8.2	8.209	8.45	8.	0.02	0.141	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/91-09/22/93	7	0.006	0.006	0.01	0.004	0.	0.002	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/21/91-09/22/93	6	8.1	8.05	8.3	7.7	0.047	0.217	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/21/91-09/22/93	6	8.1	8.002	8.3	7.7	0.05	0.223	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/91-09/22/93	6	0.008	0.01	0.02	0.005	0.	0.006	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/21/91-08/28/91	2 #	4 0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00613	NITRITE NÍTROGEN, DÍSSOLVED (MĠ/L AS N)	08/28/91-08/28/91	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L ÁS N)	03/21/91-02/03/92	3	7.4	5.8	8.6	1.4	14.88	3.857	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/21/91-08/28/91	2 #	4 0.018	0.018	0.03	0.005	0.	0.018	**	**	**	**
00915	CALCIUM, DIŚSOLVED (MG/L AS CA)	03/21/91-09/22/93	6	150.	250.	500.	110.	33640.	183.412	**	**	**	**
00925	MAGNESIÚM, DISSOLVÈD (MG/L AS MG)	03/21/91-09/22/93	6	48.5	107.833	250.	32.	10596.967	102.942	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/21/91-09/22/93	6	145.	213.	420.	68.	23102.	151.993	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/21/91-09/22/93	6	5.1	5.5	9.3	3.3	4.532	2.129	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	03/21/91-09/22/93	6	140.	161.667	290.	60.	6616.667	81.343	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/21/91-09/22/93	6	535.	1193.333	3100.	330.	1445586.667	1202.326	**	**	**	**
00950	FLUORIDÉ, DISSOÈVED (MG/L ÁS F)	03/21/91-09/22/93	6	0.3	0.333	0.5	0.3	0.007	0.082	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/21/91-09/22/93	6	9.75	10.15	12.	8.9	1.291	1.136	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/21/91-08/28/91	2 #	4 0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (ÙG/L AS B)	03/21/91-02/03/92	3	400.	306.667	410.	110.	29033.333	170.392	**	**	**	**
01025	CADMIÚM, DISSOLVÈD (UG/L AS CD)	03/21/91-08/28/91	2 #	4 0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/21/91-08/28/91	2 #	# 1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
01040	COPPER, DIŚSOLVED (UG/L AS CU)	03/21/91-08/28/91	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/21/91-08/28/91	2 #	4 0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLÝBDENUM, DIŠSOLVED (ÚG/L AS MO)	03/21/91-08/28/91	2	9.	9.	10.	8.	2.	1.414	**	**	**	**
01085	VANADIUM, DIŚSOLVED (UG/L AS V)	03/21/91-08/28/91	2	5.	5.	6.	4.	2.	1.414	**	**	**	**
01090	ZINC, DISSOLVED (UG/L ÀS ZN)	03/21/91-08/28/91	2	11.5	11.5	13.	10.	4.5	2,121	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L ÁS SE)	07/08/93-09/22/93	3	9.	8.333	9.	7.	1.333	1.155	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AŚ U	03/21/91-08/28/91	2	16.2	16.2	26.	6.4	192.08	13.859	**	**	**	**
30282	METHIOCARB, WATER, WHOLE, RECOVERABLE, UG/L	06/24/91-06/24/91	1 #		0.25	0.25	0.25	0.	0.	**	**	**	**
30296	PROPOXUR, WATER, WHOLE, RECOVERABLE, UG/L	06/24/91-06/24/91	1 #	4 0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
38932	CHLORPYRIFOS, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	1 #	4 0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 0.00

Parameter Inventory for Station: COLM0025

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39011	DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##		0.005	0.005	0.005	0.	0.	**	**	**	**
39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39051	METHOMYL IN WHOLE WATER (UG/L)	06/24/91-06/24/91	1 ##		0.25	0.25	0.25	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (ÚG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39560	DEMETON IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##		0.05	0.05	0.05	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39580	GUTHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/21/91-08/28/91	2	2900.	2900.	4590.	1210. 5'	712200.	2390.021	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/21/91-08/28/91	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/21/91-08/28/91	2	5.15	5.15	8.4	1.9	21.125	4.596	**	**	**	**
77441	1-NAPHTHOL WHOLE WATER,UG/L	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82088	TERBUFOS (COUNTER) TOTAL WHOLE WATER, UG/L	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82584	3-HYDROXY CARBOFURAN, WATER, TOTAL RECOVERABLE, UG/L	06/24/91-06/24/91	1 ##		0.25	0.25	0.25	0.	0.	**	**	**	**
82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82587	ALDICARB SULFONE, WH WATER, TOTAL RECOVERABLE, UG/L	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82613	OXYAMYL, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82614	DYFONATÉ (FONOFOS), WATER, TOTAL RECOVERABLE, UG/L	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-7/15-10/19-			-10/20-1/14			-1/15-5/31			6/01-7/14-	
Paramet		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	$0.0\bar{0}$	1	0	0.00				2	0	0.00			
00400	PH	Fresh Chronic	9.	7	0	0.00	3	0	0.00				2	0	0.00	2	0	0.00
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00				2	0	0.00	2	0	0.00
00403	PH, LAB	Fresh Chronic	9.	6	0	0.00	3	0	0.00				2	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	6	0	0.00	3	0	0.00				2	0	0.00	1	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00				2	0	0.00			
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	3	0	0.00				2	0	0.00	1	0	0.00
		Drinking Water	250.	6	1	0.17	3	0	0.00				2	1	0.50	1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	6	1.00	3	3	1.00				2	2	1.00	1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	6	0	0.00	3	0	0.00				2	0	0.00	1	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2	0	0.00	1	0	0.00				1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	15.	2	0	0.00	1	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00							1	0	0.00
	,	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	2	1	0.50	1	0	0.00				1	1	1.00			
38932	CHLORPYRIFOS, TOTAL RECOVERABLE	Fresh Acute	0.083	1	0	0.00										1	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
	•	Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

				Total	Exceed	Prop.		-7/15-10/19			-10/20-1/14-			1/15-5/31-			-6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVER	Drinking Water	4.	1	0	$0.0\bar{0}$			-			-			-	1	0	0.00
82587	ALDICARB SULFONE, WHOLE WATER, TOTAL REC	Drinking Water	2.	1	0	0.00										1	0	0.00
82613	OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	Drinking Water	200.	1	0	0.00										1	0	0.00
82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERAB	Drinking Water	40.	1	0	0.00										1	0	0.00
82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	Drinking Water	3.	1	0	0.00										1	0	0.00

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0026

LAT/LON: 39.113892/-108.675616

Agency: 11NPSWRD FIPS State/County: 08077 COLORADO/MESA

Within Park Boundary: No

STORET Station ID(s): COLM_NURE_01 /3117491

Date Created: 08/08/98

Location: 125005

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes:

RMI-Miles: HUC: 14010005

Major Basin: COLORADO RIVER

Minor Basin: UPPER COLORADO RIVER

RF1 Index: 14010005 RF3 Index: 14030001001504.67 RF1 Mile Point: 0.000 RF3 Mile Point: 6.12

Depth of Water: 0

Elevation: 0

Aquifer: Water Body Id: ECO Region:

Distance from RF1: 8.10 Distance from RF3: 0.65 On/Off RF1: On/Off RF3:

Description:

THE STATION IS LOCATED ON THE COLORADO NATIONAL MONUMENT CO 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE COLORADO NATIONAL MONUMENT PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT-GRADE NITRIC ACID PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: COLM0026

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/77-08/13/77	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/13/77-08/13/77	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/13/77-08/13/77	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/13/77-08/13/77	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/77-08/13/77	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/13/77-08/13/77	1	10.48	10.48	10.48	10.48	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.	7/15-10/19			10/20-1/14			1/15-5/31			6/01-7/14		
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	$0.0\bar{0}$	1	0	0.00			-						
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0027 Location: PRITCHARD WASH AT RIVER ROAD Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14010005 Major Basin: Minor Basin:

RF1 Index: 14010005 RF3 Index: 14010005093200.00

Description:

LAT/LON: 39.116670/-108.658615

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390700108393101 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 8.40 Distance from RF3: 0.12

On/Off RF1: On/Off RF3:

Date Created: 10/05/91

Parameter Inventory for Station: COLM0027

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/28/91-02/03/92	2	5.5	5.5	6.	5.	0.5	0.707	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/91-02/03/92	4	12.5	12.375	21.	3.5	88.563	9.411	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/21/91-02/03/92	3	648.	645.333	652.	636.	69.333	8.327	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CÉS	03/21/91-02/03/92	4	9.5	10.5	21.	2.	99.	9.95	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	03/21/91-02/03/92	4	2785.	2640.	3780.	1210.	1736866.667	1317.902	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/21/91-02/03/92	3	9.8	10.067	13.4	7.	10.293	3.208	**	**	**	**
00400	PH (STANDARD UNITS)	03/21/91-02/03/92	4	8.1	8.075	8.1	8.	0.002	0.05	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/21/91-02/03/92	4	8.1	8.073	8.1	8.	0.003	0.05	**	**	**	**
00400	MICRO EOUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/91-02/03/92	4	0.008	0.008	0.01	0.008	0.	0.001	**	**	**	**
00403	PH. LAB. STANDARD UNITS SU	03/21/91-02/03/92	3	7.9	7.9	8.	7.8	0.01	0.1	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/21/91-02/03/92	3	7.9	7.892	8.	7.8	0.01	0.1	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/21/91-02/03/92	3	0.013	0.013	0.016	0.01	0.	0.003	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/21/91-08/28/91	2 #	# 0.033	0.033	0.06	0.005	0.002	0.039	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/28/91-08/28/91	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/21/91-02/03/92	3	5.6	4.333	6.	1.4	6.493	2.548	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/21/91-08/28/91	2 #	# 0.023	0.023	0.04	0.005	0.001	0.025	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/21/91-02/03/92	3	500.	386.667	510.	150.	42033.333	205.02	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/21/91-02/03/92	3	150.	120.333	170.	41.	4820.333	69.429	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/21/91-02/03/92	3	240.	210.	250.	140.	3700.	60.828	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/21/91-02/03/92	3	5.7	5.7	6.2	5.2	0.25	0.5	**	**	**	**
00940	CHLORIDE.TOTAL IN WATER MG/L	03/21/91-02/03/92	3	180.	183.333	210.	160.	633.333	25.166	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/21/91-02/03/92	3	1800.	1630.	2600.	490.	1134700.	1065.223	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L ÁS F)	03/21/91-02/03/92	3	0.3	0.333	0.4	0.3	0.003	0.058	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/21/91-02/03/92	3	12.	11.8	14.	9.4	5.32	2.307	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/21/91-08/28/91	2 #		1.25	2	0.5	1.125	1.061	**	**	**	**
01020	BORON, DISSOLVED (ÙG/L AS B)	03/21/91-02/03/92	3	270.	206.667	270.	80.	12033.333	109.697	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/21/91-08/28/91	2 #		0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/21/91-08/28/91	2 #	# 1.75	1.75	3.	0.5	3.125	1.768	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/21/91-08/28/91	2	1.	1.	ĺ.	1.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/21/91-08/28/91	2 #	4 0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/21/91-08/28/91	2	6.5	6.5	8.	5.	4.5	2.121	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	03/21/91-08/28/91	$\bar{2}$	4.	4.	4	4.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/21/91-08/28/91	2 #	¢ 6.	6.	7.	5.	2	1.414	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/21/91-08/28/91	2	17.7	17.7	29.	6.4	255.38	15.981	**	**	**	**
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	03/21/91-08/28/91	2	2240.	2240.	3420.		2784800.	1668.772	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/21/91-08/28/91	2 #		0.05	0.05	0.05	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	03/21/91-08/28/91	2	5.55	5.55	9.2	1.9	26.645	5.162	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000 RF3 Mile Point: 0.08

				Total	Exceed	Prop.	7/15-10/19			10/20-1/14		1/15-5/31			6/01-7/14			
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	$0.0\overline{0}$	1	0	0.00				2	0	0.00			
00400	PH	Fresh Chronic	9.	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	3	0	0.00	1	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00				2	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00				2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00				2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	3	1.00	1	1	1.00				2	2	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	1	0	0.00				2	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2	0	0.00	1	0	0.00				1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	15.	2	0	0.00	1	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	2	1	0.50	1	0	0.00				1	1	1.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0028 LAT/LON: 39.117226/-108.658059 Location: PRITCHARD WASH NR MOUTH NR GRAND JUNCTION, COLO. Station Type: /CANAL/TYPA/AMBNT RMI-Indexes:

RMI-Hidexes: RMI-Miles: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RFI Index: 14010005009

RF3 Index: 14010005093200.00 Description:

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 6.300 RF3 Mile Point: 0.08

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010210 /GV0210 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.11

Date Created: 08/28/82

On/Off RF1: OFF On/Off RF3:

Parameter Inventory for Station: COLM0028

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 25th 90th

****** No Parameter Data Available for this Station *******

NPS Station ID: COLM0029 Location: HUNTER WASH AT RIVER ROAD Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Indexes: RMI-Miles: HUC: 14010005 Major Basin: Minor Basin: RFI Index: 14010005 RF3 Index: 14010005011800.00

Description:

LAT/LON: 39.121393/-108.668060

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390717108400501 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 8.70 Distance from RF3: 0.01

On/Off RF1: On/Off RF3:

Date Created: 10/05/91

Parameter Inventory for Station: COLM0029

Paramete	r.	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/28/91-09/22/93	5	14.	13.6	16.	10.	5.3	2.302	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/20/91-09/22/93	7	17.5	14.643	20.	3.5	39.726	6.303	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/20/91-02/03/92	3	649.	648.	652.	643.	21.	4.583	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/20/91-09/22/93	7	43.	35.286	74.	3.	664.238	25.773	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/20/91-09/22/93	7	1610.	2272.857	4340.	1210.	1785690.476	1336.297	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/20/91-02/03/92	3	11.5	10.9	14.1	7.1	12.52	3.538	**	**	**	**
00400	PH (STANDARD UNITS)	03/20/91-09/22/93	7	8.1	8.109	8.22	8.	0.005	0.073	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/20/91-09/22/93	7	8.1	8.103	8.22	8.	0.005	0.073	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/20/91-09/22/93	7	0.008	0.008	0.01	0.006	0.	0.001	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/20/91-09/22/93	6	7.95	7.933	8.1	7.7	0.019	0.137	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/20/91-09/22/93	6	7.947	7.914	8.1	7.7	0.019	0.138	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/20/91-09/22/93	6	0.011	0.012	0.02	0.008	0.	0.004	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/20/91-08/28/91	2 #	# 0.018	0.018	0.03	0.005	0.	0.018	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/28/91-08/28/91	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	03/20/91-02/03/92	3	6.8	5.267	7.8	1.2	12.653	3.557	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/20/91-08/28/91	2#	# 0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00915	CALCIUM, DIŚSOLVED (MG/L AS CA)	03/20/91-09/22/93	6	185.	256.667	490.	130.	22546.667	150.155	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/20/91-09/22/93	6	54.5	104.833	230.	38.	8049.767	89.72	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/20/91-09/22/93	6	135.	181.167	330.	67.	11472.167	107.108	**	**	**	**
00935	POTASSÍUM, DISSOLVED (MG/L AS K)	03/20/91-09/22/93	6	6.	6.15	8.6	3.6	3.887	1.972	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	03/20/91-09/22/93	6	145.	152.333	230.	64.	3352.667	57.902	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/20/91-09/22/93	6	555.	1063.333	2300.	400.	783786.667	885.317	**	**	**	**
00950	FLUORIDÉ, DISSOÈVED (MG/L ÁS F)	03/20/91-09/22/93	6	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/20/91-09/22/93	6	11.	11.067	13.	9.5	1.687	1.299	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/20/91-08/28/91	2 #	# 0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (ÙG/L AS B)	03/20/91-02/03/92	3	340.	253.333	340.	80.	22533.333	150.111	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/20/91-08/28/91	2 #	# 0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/20/91-08/28/91	2#	# 0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/20/91-08/28/91	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01049	LEAD, DISSOLVED (UĞ/L AS PB)	03/20/91-08/28/91	2#	# 0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLÝBDENUM, DIŠSOLVED (ÚG/L AS MO)	03/20/91-08/28/91	2	6.	6.	8.	4.	8.	2.828	**	**	**	**
01085	VANADIUM, DIŚSOLVED (UG/L AS V)	03/20/91-08/28/91	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/20/91-08/28/91	2	22.	22.	30.	14.	128.	11.314	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/28/91-09/22/93	3	7.	7.667	10.	6.	4.333	2.082	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AŚ U	03/20/91-08/28/91	2	7.85	7.85	8.3	7.4	0.405	0.636	**	**	**	**
30282	METHIOCARB, WATER, WHOLE, RECOVERABLE, UG/L	06/24/91-06/24/91	1 #	# 0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
30296	PROPOXUR, WATER, WHOLE, RECOVERABLE, UG/L	06/24/91-06/24/91	1 #		0.25	0.25	0.25	0.	0.	**	**	**	**
38932	CHLORPYRIFOS, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	1#		0.005	0.005	0.005	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000 RF3 Mile Point: 0.19

Parameter Inventory for Station: COLM0029

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39011	DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39040	S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39051	METHOMYL IN WHOLE WATER (UG/L)	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39560	DEMETON IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
39580	GUTHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/20/91-08/28/91	2	2490.	2490.	3960.	1020. 43	321800.	2078.894	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/20/91-08/28/91	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SİGMA PRC EST,TOTAL,WATER UG/L	03/20/91-08/28/91	2	2.3	2.3	2.4	2.2	0.02	0.141	**	**	**	**
77441	1-NAPHTHOL WHOLE WATER,UG/L	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82088	TERBUFOS (COUNTER) TOTAL WHOLE WATER, UG/L	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82584	3-HYDROXÝ CARBOFÚRAN, WATER, TOTAL RECOVERABLE, UG/L	06/24/91-06/24/91	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82587	ALDICARB SULFONE, WH WATER, TOTAL RECOVERABLE, UG/L	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82613	OXYAMYL, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82614	DYFONATE (FONOFOS), WATER, TOTAL RECOVERABLE, UG/L	06/24/91-06/24/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/24/91-06/24/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-7/15-10/19-			10/20-1/14			-1/15-5/31			-6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	$0.0\bar{0}$	1	0	0.00			-	2	0	0.00			
00400	PH	Fresh Chronic	9.	7	0	0.00	3	0	0.00				2	0	0.00	2	0	0.00
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00				2	0	0.00	2	0	0.00
00403	PH, LAB	Fresh Chronic	9.	6	0	0.00	3	0	0.00				2	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	6	0	0.00	3	0	0.00				2	0	0.00	1	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00				2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	3	0	0.00				2	0	0.00	1	0	0.00
		Drinking Water	250.	6	0	0.00	3	0	0.00				2	0	0.00	1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	6	1.00	3	3	1.00				2	2	1.00	1	1	1.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	6	0	0.00	3	0	0.00				2	0	0.00	1	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2	0	0.00	1	0	0.00				1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	15.	2	0	0.00	1	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00							1	0	0.00
		Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	2	0	0.00	1	0	0.00				1	0	0.00			
38932	CHLORPYŘIFOS, TOTÁL RECOVERABLE	Fresh Acute	0.083	1	0	0.00										1	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	1	0	0.00										1	0	0.00

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

				Total	Exceed	Prop.		-7/15-10/19			-10/20-1/14			1/15-5/31			-6/01-7/14	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	$0.0\bar{0}$	1	0	0.00			-	1	0	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			
82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVER	Drinking Water	4.	1	0	0.00										1	0	0.00
82587	ALDICARB SULFONE, WHOLE WATER, TOTAL REC	Drinking Water	2.	1	0	0.00										1	0	0.00
82613	OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	Drinking Water	200.	1	0	0.00										1	0	0.00
82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERAB	Drinking Water	40.	1	0	0.00										1	0	0.00
82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	Drinking Water	3.	1	0	0.00										1	0	0.00

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0030 LAT/LON Location: BACKWATER SITE AT FORRESTERS,EAST OF 19 ROAD LAT/LON: 39.121670/-108.699170

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes: RMI-Miles:

HUC: 14010005 Depth of Water: 0 Major Basin: Elevation: 0 Minor Basin:

RF1 Index: 14010005 RF1 Mile Point: 0.000 RF3 Index: 14030001001504.67 RF3 Mile Point: 6.12

Description:

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390718108415701 Within Park Boundary: No

Aquifer: Water Body Id:

ECO Region:
Distance from RF1: 8.10
Distance from RF3: 0.65

On/Off RF1:

Date Created: 07/08/95

On/Off RF3:

Parameter Inventory for Station: COLM0030

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/14/95-03/12/96	4	16.2	14.85	18.	9.	16.097	4.012	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/14/95-03/12/96	4	650.	650.25	655.	646.	19.583	4.425	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	03/14/95-03/12/96	4	3685.	3649.25	6270.	957.	8126515.583	2850.704	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/14/95-03/12/96	4	7.75	8.475	12.1	6.3	6.349	2.52	**	**	**	**
00400	PH (STANDARD UNITS)	03/14/95-03/12/96	4	7.985	7.96	8.16	7.71	0.036	0.19	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/14/95-03/12/96	4	7.983	7.928	8.16	7.71	0.037	0.193	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/14/95-03/12/96	4	0.01	0.012	0.019	0.007	0.	0.005	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/12/95-08/08/95	2 ##	4 3.25	3.25	6.	0.5	15.125	3.889	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	08/08/95-08/08/95	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/12/95-03/12/96	3	1.	0.967	1.4	0.5	0.203	0.451	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-7/15-10/19			-10/20-1/14			1/15-5/31-			6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00			-	2	0	0.00	1	0	0.00
00400	PH	Fresh Chronic	9.	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	2	0	0.00	1	0	0.00							1	0	0.00
	,	Drinking Water	50.	2	0	0.00	1	0	0.00							1	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
	•	Drinking Water	50.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0031 LAT/LON: 39.122226/-108.673615 Location: HUNTER WASH NEAR MOUTH NEAR FRUITA, COLORADO

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Hidexes: RMI-Miles: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RFI Index: 14010005009

RF3 Index: 14010005011800.00

Depth of Water: 0 Elevation: 0

> RF1 Mile Point: 5.470 RF3 Mile Point: 0.25

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010220 /GJ0220 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.02

On/Off RF1: OFF On/Off RF3:

Date Created: 08/28/82

Description:

Parameter Inventory for Station: COLM0031

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 90th

NPS Station ID: COLM0032 LAT/LON: 39.127227/-108.665559 Location: INFLOW INDEP RANCHMENS DITCH AND HUNTER WASH

Station Type: /CANAL/TYPA/AMBNT RMI-Indexes:

RMI-Hidexes: RMI-Miles: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RFI Index: 14010005009 RF3 Index: 14010005085600.00

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 3.340 RF3 Mile Point: 1.30

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010417 /FIN220 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.21

On/Off RF1: OFF On/Off RF3:

Date Created: 08/28/82

Description:

Parameter Inventory for Station: COLM0032

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 90th

NPS Station ID: COLM0033 LAT/LON: 39.127227/-108.673059 Location: OUTFLOW INDEP RANCHMANS DITCH AND HUNTER WASH

Station Type: /CANAL/TYPA/AMBNT RMI-Indexes:

RMI-Hidexes: RMI-Miles: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RFI Index: 14010005009

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 3.340 RF3 Mile Point: 0.15

RF3 Index: 14010005056600.00 Description:

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010413 /FOT220 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.08

On/Off RF1: OFF On/Off RF3:

Date Created: 08/28/82

Parameter Inventory for Station: COLM0033

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 90th

NPS Station ID: COLM0034 LAT/LON Location: DRAINAGE PIPE DISCHARGE INTO S.POND AT SMITHS LAT/LON: 39.134726/-108.721671

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles: HUC: 14010005

Depth of Water: 0 Major Basin: Elevation: 0 Minor Basin:

RF1 Index: 14010005 RF1 Mile Point: 0.000 RF3 Index: 14030001001504.67 RF3 Mile Point: 6.12

Description:

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390805108431801 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 8.10 Distance from RF3: 0.65

On/Off RF1: On/Off RF3:

Date Created: 07/08/95

Parameter Inventory for Station: COLM0034

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/13/95-03/13/95	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/13/95-03/13/95	1	2540.	2540.	2540.	2540.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/13/95-03/13/95	1	8.02	8.02	8.02	8.02	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/13/95-03/13/95	1	8.02	8.02	8.02	8.02	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/13/95-03/13/95	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/13/95-03/13/95	1	5.	5.	5.	5.	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

			Total	Exceed	Prop.		-7/15-10/19)		10/20-1/14-			-1/15-5/31-			-6/01-7/14	
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	0	$0.0\bar{0}$			-			-	1	0	0.00			
	Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
,	Drinking Water	50.	1	0	0.00							1	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0035 LAT/I Location: SOUTH POND AT P.SMITH PROPERTY, NR 18 ROAD LAT/LON: 39.135003/-108.722781

Station Type: /TYPA/AMBNT/LAKE

RMI-Indexes:

RMI-Miles: HUC: 14010005 Depth of Water: 0 Major Basin: Elevation: 0 Minor Basin:

RF1 Index: 14010005 RF1 Mile Point: 0.000 RF3 Index: 14030001001504.67 RF3 Mile Point: 6.12

Description:

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390806108432201 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 8.10 Distance from RF3: 0.65

On/Off RF1: On/Off RF3:

Date Created: 07/08/95

Parameter Inventory for Station: COLM0035

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/13/95-03/12/96	4	13.85	14.7	21.7	9.4	26.26	5.124	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	03/13/95-03/12/96	4	650.	650.25	654.	647.	14.25	3.775	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/13/95-03/12/96	4	1805.	1630.5	2510.	402.	938027.667	968.518	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/12/95-03/12/96	3	7.9	8.167	10.2	6.4	3.663	1.914	**	**	**	**
00400	PH (STANDARD UNITS)	03/13/95-03/12/96	4	8.225	8.24	8.35	8.16	0.006	0.08	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/13/95-03/12/96	4	8.225	8.235	8.35	8.16	0.006	0.08	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/13/95-03/12/96	4	0.006	0.006	0.007	0.004	0.	0.001	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/13/95-03/12/96	4	3.5	3.5	6.	1.	4.333	2.082	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	08/08/95-08/08/95	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/12/95-03/12/96	3	1.5	1.267	1.8	0.5	0.463	0.681	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-7/15-10/19			-10/20-1/14			1/15-5/31			6/01-7/14-	
Paramete	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00			-	1	0	0.00	1	0	0.00
00400	PH	Fresh Chronic	9.	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
		Drinking Water	50.	4	0	0.00	1	0	0.00				2	0	0.00	1	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0036 LAT/LON: 39.136670/-108.692226 Location: INFLOW INDEP RANCHMANS DITCH AND ADOBE WASH

Station Type: /CANAL/TYPA/AMBNT RMI-Indexes:

RMI-Hidexes: RMI-Miles: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RFI Index: 14010005009

RF3 Index: 14010005071100.00 Description:

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 3.340

RF3 Mile Point: 0.93

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010411 /FIN230 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.02

On/Off RF1: OFF On/Off RF3:

Date Created: 08/28/82

Parameter Inventory for Station: COLM0036

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 90th

NPS Station ID: COLM0037 Location: ADOBE CREEK AT HIGHWAY 6&50

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14010005 Major Basin: Minor Basin:

RF1 Index: 14010005009 RF3 Index: 14010005052200.00 Description:

LAT/LON: 39.136949/-108.696393

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 3.340 RF3 Mile Point: 2.52

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390813108414701 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.40 Distance from RF3: 0.03

On/Off RF1: OFF On/Off RF3:

Date Created: 06/16/79

Parameter Inventory for Station: COLM0037

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/29/78-11/29/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCÈ (UMHOS/CM @, 25C)	11/29/78-11/29/78	1	6200.	6200.	6200.	6200.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/29/78-11/29/78	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/29/78-11/29/78	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/29/78-11/29/78	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	11/29/78-11/29/78	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/29/78-11/29/78	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/29/78-11/29/78	1	360.	360.	360.	360.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/29/78-11/29/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/29/78-11/29/78	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/29/78-11/29/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	11/29/78-11/29/78	1#			0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/29/78-11/29/78	1#	# 0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/29/78-11/29/78	1	1900.	1900.	1900.	1900.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/29/78-11/29/78	1	1600.	1600.	1600.	1600.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/29/78-11/29/78	1	430.	430.	430.	430.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/29/78-11/29/78	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/29/78-11/29/78	1	340.	340.	340.	340.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/29/78-11/29/78	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/29/78-11/29/78	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/29/78-11/29/78	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00940	CHLORIDE, TOTAL IN WATER MG/L	11/29/78-11/29/78	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/29/78-11/29/78	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/29/78-11/29/78	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/29/78-11/29/78	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/29/78-11/29/78	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/29/78-11/29/78	1	230.	230.	230.	230.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/29/78-11/29/78	1	3420.	3420.	3420.	3420.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/29/78-11/29/78	1	4.65	4.65	4.65	4.65	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.	r			-10/20-1/14			1/15-5/31-			6/01-7/14-		
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	1	0	$0.0\bar{0}$				1	0	0.00			-			
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00				1	1	1.00						
00950	FLUORIDÉ, DISSOÈVED AŚ F	Drinking Water	4.	1	0	0.00				1	0	0.00						

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0038 LAT/LON: 39.136949/-108.696393 Location: ADOBE CREEK AT USGS GAGE NR MOUTH NR FRUITA, CO.

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Hidexes: RMI-Miles: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RFI Index: 14010005009

RF3 Index: 14010005000901.55 Description:

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 3.340 RF3 Mile Point: 1.54

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010230 /GV0230 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.17

On/Off RF1: OFF On/Off RF3:

Date Created: 08/28/82

Parameter Inventory for Station: COLM0038

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 25th 90th

NPS Station ID: COLM0039 Location: ADOBE CREEK NEAR FRUITA, CO.

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Indexes: RMI-Miles: HUC: 14010005 Major Basin: Minor Basin: RFI Index: 14010005009 RF3 Index: 14020005000100.29 Description:

LAT/LON: 39.136949/-108.696670

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 3.340 RF3 Mile Point: 1.99

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 09152900 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.10

On/Off RF1: OFF On/Off RF3:

Date Created: / /

Parameter Inventory for Station: COLM0039

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/28/91-09/22/93	6	14.5	13.333	18.	8.	15.867	3.983	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/03/73-09/22/93	83	10.5	10.651	21.5	0.	38.389	6.196	2.	5.5	16.5	19.
00025	BAROMETRIC PRESSURE (MM OF HG)	03/20/91-03/24/92	4	647.5	647.	650.	643.	12.667	3.559	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	08/07/73-08/12/74	5	9.	15.4	37.	2.	227.3	15.076	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/74-09/22/93	46	17.	21.628	55.	0.9	403.708	20.092	2.	2.	41.5	50.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/07/73-09/22/93	77	1830.	2742.987	5000.	845.	2193086.355	1480.907	1116.	1435.	4290.	4636.
00300p	OXYGEN, DISSOLVED MG/L	08/07/73-03/24/92	42	9.75	10.124	14.1	7.	5.022	2.241	7.23	8.075	11.8	13.58
00400p	PH (STANDARD UNITS)	08/07/73-09/22/93	48	8.1	8.037	8.6	7.4	0.083	0.287	7.6	7.825	8.208	8.31
00400p	CONVERTED PH (STANDARD UNITS)	08/07/73-09/22/93	48	8.1	7.934	8.6	7.4	0.093	0.306	7.6	7.825	8.208	8.31
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/73-09/22/93	48	0.008	0.012	0.04	0.003	0.	0.009	0.005	0.006	0.015	0.025
00403	PH, LAB, ŜTANDARD UNITS SU	03/20/91-09/22/93	6	7.95	7.95	8.1	7.8	0.011	0.105	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/20/91-09/22/93	6	7.947	7.939	8.1	7.8	0.011	0.106	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/20/91-09/22/93	6	0.011	0.011	0.016	0.008	0.	0.003	**	**	**	**
00405	CARBON ĎIOXIDE (MG/L AS CO2)	08/07/73-11/15/78	33	3.3	5.821	27.	1.3	38.219	6.182	1.8	2.3	6.15	14.8
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/07/73-08/21/80	40	260.	241.15	350.	120.	6863.874	82.849	135.5	163.75	321.5	338.6
00440	BICARBONATE ION (MG/L AS HCO3)	08/07/73-11/15/78	33	350.	303.939	427.	147.	10603.684	102.974	156.	208.	397.	416.6
00445	CARBONATE ION (MG/L AS CO3)	08/07/73-11/15/78	32	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/20/91-08/28/91	2	0.03	0.03	0.05	0.01	0.001	0.028	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/28/91-08/28/91	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L ÁS N)	08/07/73-02/05/92	43	7.	5.542	11.	1.1	14.701	3.834	1.44	1.7	9.6	10.
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/07/73-03/15/79	34	0.09	0.128	0.83	0.	0.023	0.151	0.	0.03	0.18	0.265
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	11/15/78-08/21/80	8	0.055	0.06	0.16	0.	0.003	0.05	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/07/73-08/28/91	36	0.03	0.042	0.27	0.005	0.002	0.048	0.005	0.01	0.06	0.083
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/07/73-08/21/80	40	1800.	1307.	2400.	400.	548339.487	740.499	461.	555.	2000.	2090.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/07/73-08/21/80	40	1500.	1051.25	1800.	250.	416129.167	645.081	321.	387.5	1675.	1700.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/73-09/22/93	46	290.	299.348	510.	100.	24188.454	155.526	120.	140.	450.	473.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/73-09/22/93	46	113.5	126.696	280.	29.	7334.305	85.641	35.7	44.75	200.	230.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/07/73-09/22/93	46	260.	266.826	500.	0.	22349.925	149.499	90.2	127.5	420.	440.
00931	SODIUM ADSORPTION RATIO	08/07/73-08/21/80	40	3.55	3.235	4.7	1.5	0.876	0.936	1.81	2.425	4.1	4.29
00932	SODIUM, PERCENT	08/07/73-08/21/80	40	31.	31.925	45.	26.	14.635	3.826	27.	30.	33.75	37.
00933	SODIUM,PLUS POTASSIUM (MG/L)	05/11/79-01/29/80	4	195.	214.75	370.	99.	15576.917	124.808	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/07/73-09/22/93	46	6.5	6.77	12.	2.9	5.627	2.372	3.78	4.825	8.7	9.83
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/07/73-09/22/93	46	205.	174.239	260.	56.	3870.586	62.214	75.7	117.5	222.5	240.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/07/73-09/22/93	46	1235.	1320.435	2800.	320.	760693.14	872.177	354.	475.	2200.	2230.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	08/07/73-09/22/93	46	0.3	0.304	0.5	0.2	0.005	0.07	0.2	0.3	0.3	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/07/73-09/22/93	46	9.8	9.817	13.	6.8	2.278	1.509	8.01	8.775	11.	12.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/20/91-08/28/91	2 #		0.75	1.	0.5	0.125	0.354	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	03/20/91-03/24/92	4	305.	265.	330.	120.	9500.	97.468	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: COLM0039

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/20/91-08/28/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/20/91-08/28/91	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/20/91-08/28/91	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/07/73-08/21/80	40	30.	40.875	190.	5.	1242.163	35.244	20.	20.	57.5	80.
01049	LEAD, DISSOLVED (UG/L AS PB)	03/20/91-08/28/91	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/07/73-08/21/80	40	200.	184.75	520.	20.	24040.962	155.051	30.	30.	307.5	377.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	03/20/91-08/28/91	2	6.5	6.5	8.	5.	4.5	2.121	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	03/20/91-08/28/91	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/20/91-08/28/91	2	14.5	14.5	20.	9.	60.5	7.778	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/28/91-08/18/93	3	9.	6.333	10.	0.	30.333	5.508	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	03/20/91-08/28/91	2	12.65	12.65	17.	8.3	37.845	6.152	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/20/91-08/28/91	2	2565.	2565.	3820.	1310.	3150050.	1774.838	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/07/73-08/21/80	40	3285.	2411.125	4190.	701.	1795547.804	1339.981	825.1	1062.5	3737.5	3790.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/07/73-08/21/80	40	45.4	62.191	173.	8.63	1975.175	44.443	18.57	22.45	100.	135.8
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/07/73-08/21/80	40	4.47	3.279	5.7	0.95	3.322	1.823	1.122	1.448	5.085	5.15
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/20/91-08/28/91	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SÌGMA PRC EST,TOTAL,WATER UG/L	03/20/91-08/28/91	2	3.6	3.6	4.8	2.4	2.88	1.697	**	**	**	**

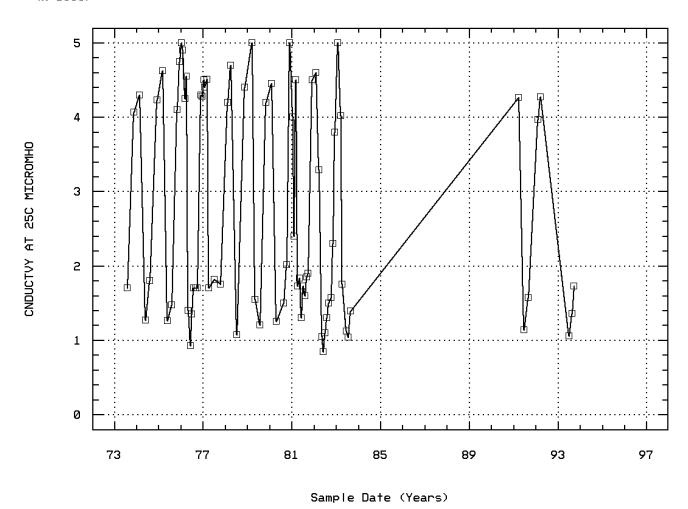
^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-7/15-10/19-			-10/20-1/14-			1/15-5/31-			-6/01-7/14	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	42	0	0.00	10	0	0.00	8	0	0.00	20	0	0.00	4	0	0.00
00400	PH	Fresh Chronic	9.	48	0	0.00	12	0	0.00	9	0	0.00	21	0	0.00	6	0	0.00
		Other-Lo Lim.	6.5	48	0	0.00	12	0	0.00	9	0	0.00	21	0	0.00	6	0	0.00
00403	PH, LAB	Fresh Chronic	9.	6	0	0.00	3	0	0.00				2	0	0.00	1	0	0.00
	,	Other-Lo Lim.	6.5	6	0	0.00	3	0	0.00				2	0	0.00	1	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	43	7	0.16	10	0	0.00	9	1	0.11	20	6	0.30	4	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	46	0	0.00	12	0	0.00	9	0	0.00	20	0	0.00	5	0	0.00
	•	Drinking Water	250.	46	3	0.07	12	0	0.00	9	0	0.00	20	3	0.15	5	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	46	46	1.00	12	12	1.00	9	9	1.00	20	20	1.00	5	5	1.00
00950	FLUORIDÉ, DISSOÈVED AS F	Drinking Water	4.	46	0	0.00	12	0	0.00	9	0	0.00	20	0	0.00	5	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
	•	Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2	0	0.00	1	0	0.00				1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01040	COPPER, DIŚSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00				1	0	0.00			
	•	Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
	,	Drinking Water	15.	2	0	0.00	1	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	1	0	0.00				1	0	0.00			
	,	Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00							1	0	0.00
	•	Drinking Water	50.	3	0	0.00	2	0	0.00							1	0	0.00
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	2	0	0.00	1	0	0.00				1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
	•	Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

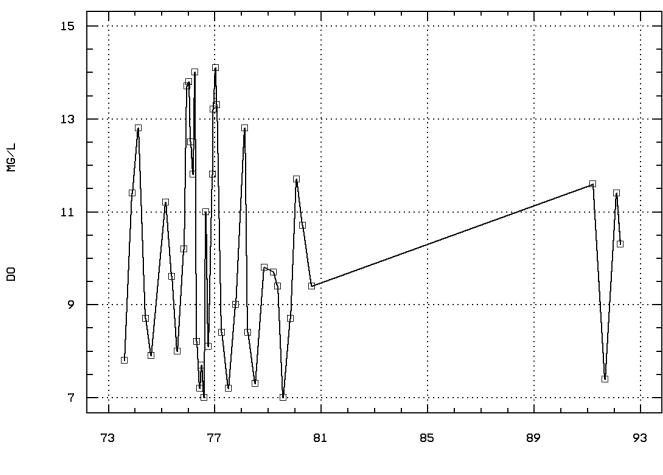
Station: COLM0039 Parameter Code: 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)

(X 1000)



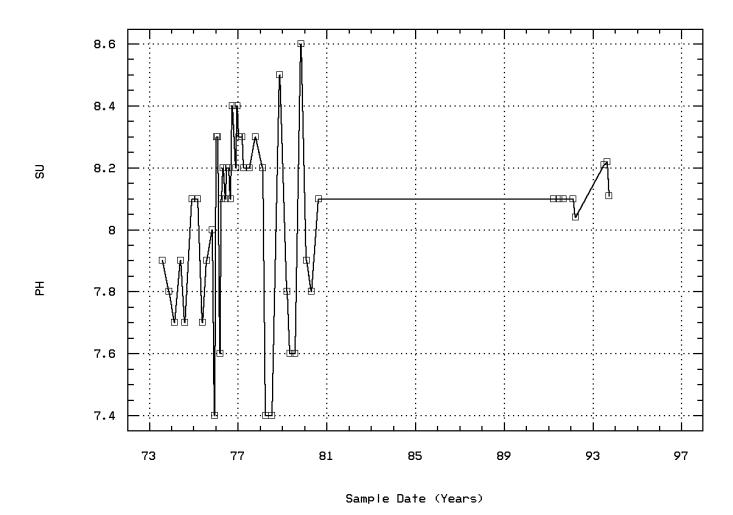
ADOBE CREEK NEAR FRUITA, CO.

Station: COLM0039 Parameter Code: 00300 OXYGEN, DISSOLVED

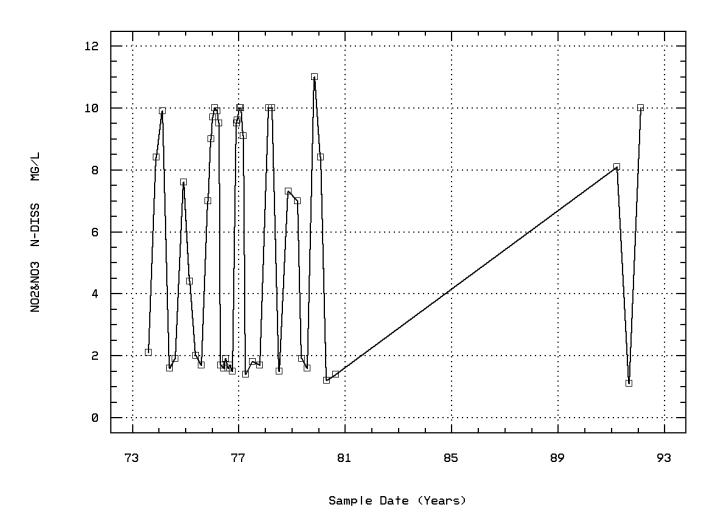


Sample Date (Years)

Station: COLM0039 Parameter Code: 00400
PH (STANDARD UNITS)

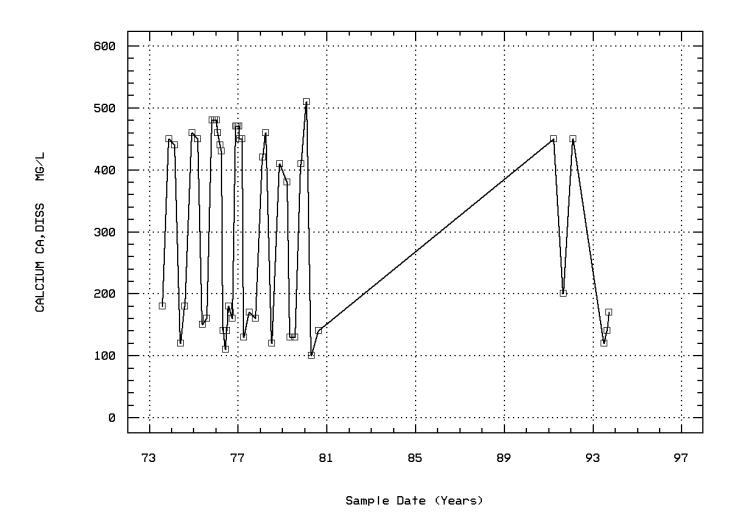


Station: COLM0039 Parameter Code: 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/



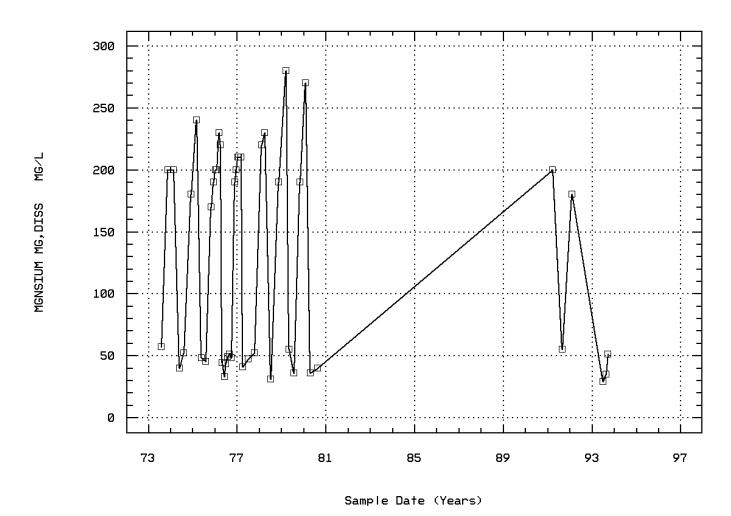
ADOBE CREEK NEAR FRUITA, CO.

Station: COLM0039 Parameter Code: 00915
CALCIUM, DISSOLVED (MG/L AS CA)



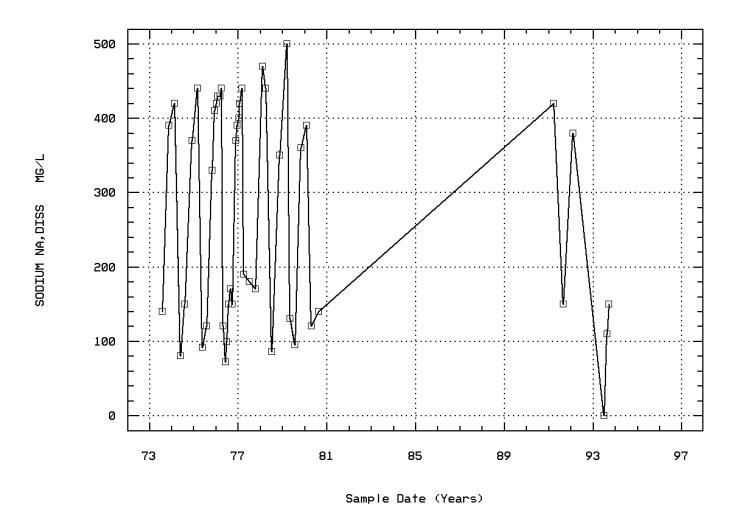
ADOBE CREEK NEAR FRUITA, CO.

Station: COLM0039 Parameter Code: 00925 MAGNESIUM, DISSOLVED (MG/L AS MG)

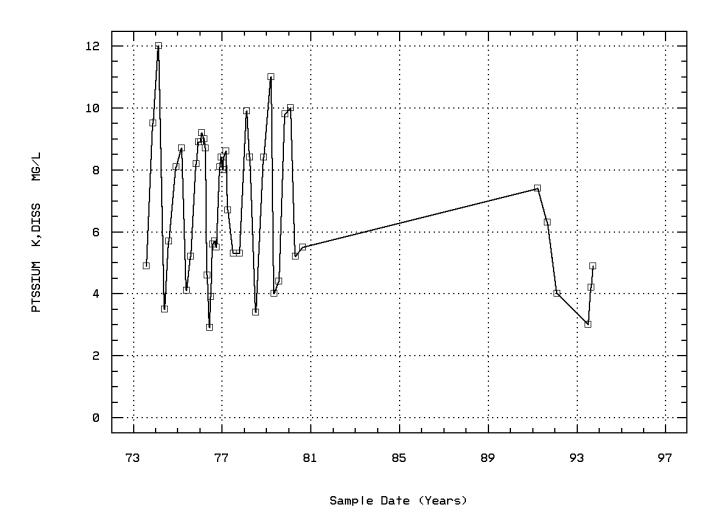


ADOBE CREEK NEAR FRUITA, CO.

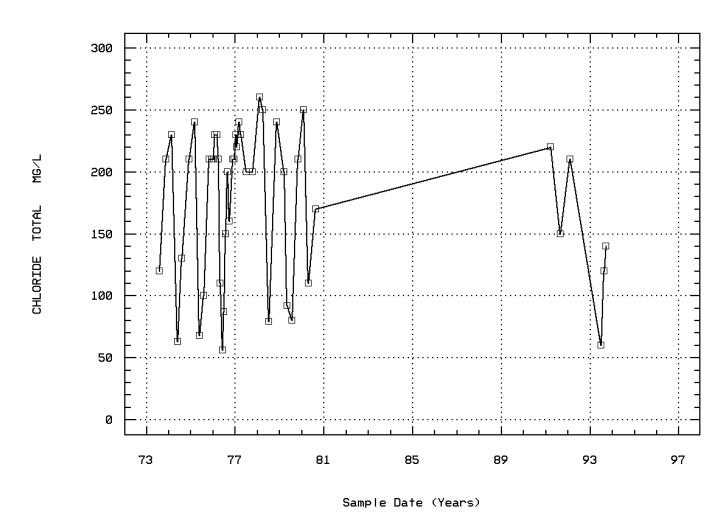
Station: COLM0039 Parameter Code: 00930 SODIUM, DISSOLVED (MG/L AS NA)



Station: COLM0039 Parameter Code: 00935 POTASSIUM, DISSOLVED (MG/L AS K)

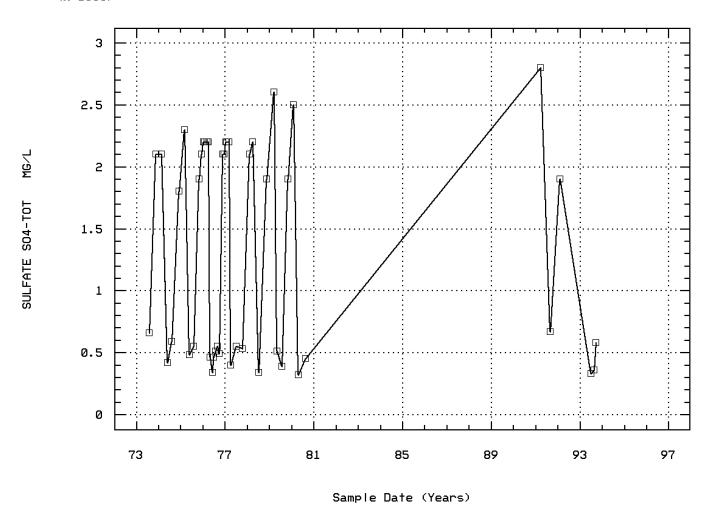


Station: COLM0039 Parameter Code: 00940 CHLORIDE, TOTAL IN WATER

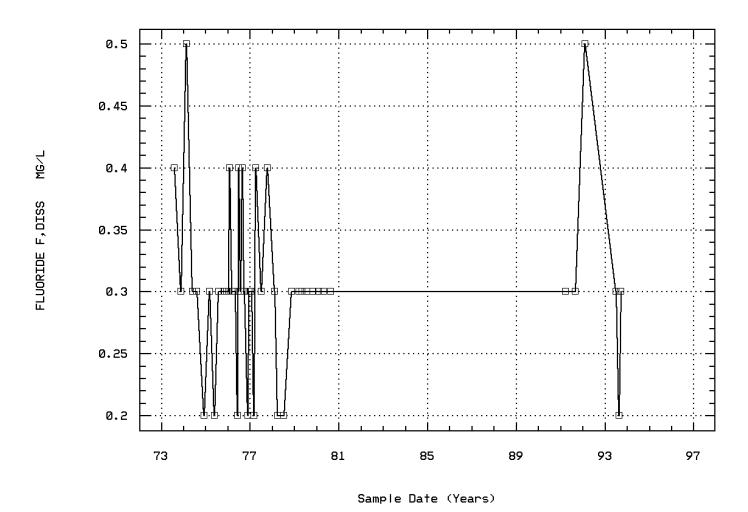


Station: COLM0039 Parameter Code: 00945 SULFATE, TOTAL (MG/L AS SO4)

(X 1000)

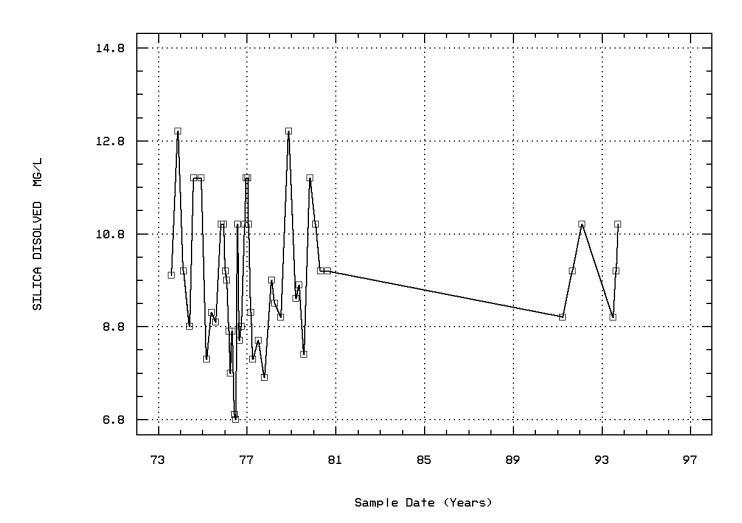


Station: COLM0039 Parameter Code: 00950 FLUORIDE, DISSOLVED (MG/L AS F)



ADOBE CREEK NEAR FRUITA, CO.

Station: COLM0039 Parameter Code: 00955 SILICA, DISSOLVED (MG/L AS SI02)



Seasonal Analysis for Season #1: 7/15 to 10/19 - Station COLM0039

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/03/73-09/22/93	21	17.	16.357	21.	8.	12.029	3.468	10.5	14.5	19.	19.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/74-09/22/93	11	43.	42.909	52.	32.	40.091	6.332	32.6	37.	49.	51.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-09/22/93	20	1650.	1615.	2010.	1200.	43468.421	208.491	1306.	1477.5	1745.	1895.
00300p	OXYGEN, DISSOLVED MG/L	08/07/73-03/24/92	10	7.95	8.26	11.	7.	1.523	1.234	7.	7.3	9.1	10.84
00400p	PH (STANDARD UNITS)	08/07/73-09/22/93	12	8.1	8.053	8.4	7.6	0.056	0.237	7.63	7.9	8.215	8.37
00400p	CONVERTED PH (STANDARD UNITS)	08/07/73-09/22/93	12	8.1	7.989	8.4	7.6	0.061	0.246	7.63	7.9	8.215	8.37
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/73-09/22/93	12	0.008	0.01	0.025	0.004	0.	0.006	0.004	0.006	0.013	0.024
00410	ALKALINÎTY, TOTAL (MG/L AS CACO3)	08/07/73-08/21/80	9	172.	166.778	193.	123.	619.194	24.884	123.	145.	190.5	193.
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/07/73-02/05/92	10	1.65	1.63	2.1	1.1	0.073	0.271	1.13	1.475	1.75	2.08
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/07/73-08/21/80	9	610.	598.889	680.	470.	4861.111	69.722	470.	545.	655.	680.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/07/73-08/21/80	9	430.	432.222	560.	330.	4344.444	65.912	330.	385.	465.	560.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/73-09/22/93	12	165.	164.167	200.	130.	408.333	20.207	133.	145.	180.	194.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/73-09/22/93	12	50.	47.583	57.	35.	51.356	7.166	35.3	41.25	52.	56.4
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/07/73-09/22/93	12	150.	141.25	170.	95.	509.659	22.576	99.5	125.	150.	170.
00931	SODIUM ADSORPTION RATIO	08/07/73-08/21/80	9	2.6	2.533	3.	1.9	0.123	0.35	1.9	2.25	2.8	3.
00932	SODIUM, PERCENT	08/07/73-08/21/80	9	33.	33.778	37.	30.	7.944	2.819	30.	31.	37.	37.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/07/73-09/22/93	12	5.4	5.267	6.3	4.2	0.348	0.59	4.26	4.9	5.675	6.12
00940p	CHLORIDE, TOTAL IN WATER MG/L	08/07/73-09/22/93	12	145.	143.333	200.	80.	1333.333	36.515	86.	120.	167.5	200.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/07/73-09/22/93	12	540.	527.5	670.	360.	9111.364	95.453	369.	460.	587.5	667.
00950p	FLUORIDE, DISSOLVED (MG/L ÁS F)	08/07/73-09/22/93	12	0.3	0.317	0.4	0.2	0.003	0.058	0.23	0.3	0.375	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/07/73-09/22/93	12	9.95	9.667	12.	7.7	1.646	1.283	7.85	8.575	10.75	11.7
01046	IRON, DISSOLVED (UG/L AS FE)	08/07/73-08/21/80	9	20.	40.	190.	20.	3175.	56.347	20.	20.	25.	190.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/07/73-08/21/80	9	30.	31.111	50.	20.	86.111	9.28	20.	25.	35.	50.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/07/73-08/21/80	9	1180.	1146.111	1280.	835.	19761.111	140.574	835.	1075.	1250.	1280.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/07/73-08/21/80	9	113.	110.756	147.	30.8	1251.188	35.372	30.8	97.5	137.5	147.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/07/73-08/21/80	9	1.6	1.56	1.74	1.14	0.036	0.19	1.14	1.465	1.7	1.74

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/20 to 1/14 - Station COLM0039

Parameter	T .	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/03/73-09/22/93	13	3.	4.192	11.	0.	11.689	3.419	0.4	1.25	6.75	10.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/74-09/22/93	10	4.	8.6	50.	1.	215.6	14.683	1.1	2.75	6.5	45.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/73-09/22/93	13	4280.	4225.385	5000.	2300.	459860.256	678.13	2900.	4085.	4625.	5000.
00300p	OXYGEN, DISSOLVED MG/L	08/07/73-03/24/92	8	11.6	11.575	13.8	8.7	3.642	1.908	**	**	**	**
00400p	PH (STANDARD UNITS)	08/07/73-09/22/93	9	8.2	8.144	8.6	7.4	0.14	0.375	7.4	7.9	8.45	8.6
00400p	CONVERTED PH (STANDARD UNITS)	08/07/73-09/22/93	9	8.2	7.978	8.6	7.4	0.171	0.414	7.4	7.9	8.45	8.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/73-09/22/93	9	0.006	0.011	0.04	0.003	0.	0.012	0.003	0.004	0.013	0.04
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/07/73-08/21/80	9	318.	315.889	350.	280.	447.361	21.151	280.	299.	329.	350.
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/07/73-02/05/92	9	9.	8.789	11.	7.	1.739	1.319	7.	7.45	9.65	11.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/07/73-08/21/80	9	1900.	1922.222	2000.	1800.	6944.444	83.333	1800.	1850.	2000.	2000.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/07/73-08/21/80	9	1600.	1600.	1700.	1500.	5000.	70.711	1500.	1550.	1650.	1700.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/73-09/22/93	9	470.	456.667	480.	410.	800.	28.284	410.	430.	480.	480.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/73-09/22/93	9	190.	190.	200.	170.	100.	10.	170.	185.	200.	200.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/07/73-09/22/93	9	370.	376.667	420.	330.	825.	28.723	330.	355.	400.	420.
00931	SODIUM ADSORPTION RATIO	08/07/73-08/21/80	9	3.7	3.733	4.1	3.3	0.055	0.235	3.3	3.6	3.9	4.1
00932	SODIUM, PERCENT	08/07/73-08/21/80	9	30.	29.778	31.	27.	1.444	1.202	27.	29.5	30.5	31.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/07/73-09/22/93	9	8.4	8.7	9.8	8.1	0.385	0.62	8.1	8.15	9.2	9.8
00940p	CHLORIDE, TOTAL IN WATER MG/L	08/07/73-09/22/93	9	210.	213.333	240.	210.	100.	10.	210.	210.	210.	240.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/07/73-09/22/93	9	2100.	2011.111	2200.	1800.	18611.111	136.423	1800.	1900.	2100.	2200.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	08/07/73-09/22/93	9	0.3	0.278	0.3	0.2	0.002	0.044	0.2	0.25	0.3	0.3
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/07/73-09/22/93	9	12.	11.667	13.	10.	1.	1.	10.	11.	12.5	13.
01046	IRON, DISSOLVED (UG/L AS FE)	08/07/73-08/21/80	9	30.	41.667	100.	5.	1012.5	31.82	5.	20.	70.	100.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/07/73-08/21/80	9	290.	283.333	350.	200.	2700.	51.962	200.	235.	325.	350.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/07/73-08/21/80	9	3590.	3497.778	3770.	3270.	35469.444	188.333	3270.	3315.	3645.	3770.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/07/73-08/21/80	9	36.2	37.067	68.3	12.8	247.182	15.722	12.8	27.25	45.4	68.3

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/20 to 1/14 - Station COLM0039

Paramet	er	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/07/73-08/21/80	9	4.88	4.759	5.13	4.45	0.066	0.256	4.45	4.51	4.96	5.13

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 1/15 to 5/31 - Station COLM0039

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/03/73-09/22/93	35	8.	7.457	16.5	0.5	17.02	4.126	2.	4.	10.	13.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/74-09/22/93	19	2.	9.258	35.	0.9	159.408	12.626	1.	2.	26.	31.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/07/73-09/22/93	32	4225.	3421.25	5000.		2011346.774	1418.22	1263.	1735.	4507.5	4840.
00300p	OXYGEN, DISSOLVED MG/L	08/07/73-03/24/92	20	11.3	11.03	14.1	8.2	3.565	1.888	8.4	9.45	12.725	13.93
00400p	PH (STANDARD UNITS)	08/07/73-09/22/93	21	8.1	7.983	8.3	7.4	0.074	0.272	7.6	7.75	8.2	8.3
00400p	CONVERTED PH (STANDARD UNITS)	08/07/73-09/22/93	21	8.1	7.896	8.3	7.4	0.082	0.286	7.6	7.75	8.2	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/73-09/22/93	21	0.008	0.013	0.04	0.005	0.	0.009	0.005	0.006	0.018	0.025
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/07/73-08/21/80	18	304.5	263.	344.	135.	6399.647	79.998	148.5	169.75	332.75	340.4
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/07/73-02/05/92	20	8.75	6.805	10.	1.2	13.89	3.727	1.42	1.925	10.	10.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/07/73-08/21/80	18	2000.	1533.333	2400.	400.	576470.588	759.257	454.	545.	2025.	2130.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/07/73-08/21/80	18	1600.	1241.667	1800.	250.	433802.941	658.637	313.	375.	1700.	1800.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/73-09/22/93	20	440.	351.5	510.	100.	23097.632	151.979	121.	142.5	450.	469.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/73-09/22/93	20	205.	168.2	280.	36.	7485.116	86.517	40.1	49.75	227.5	267.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/07/73-09/22/93	20	420.	337.6	500.	80.	21999.411	148.322	94.8	145.	440.	467.
00931	SODIUM ADSORPTION RATIO	08/07/73-08/21/80	18	4.1	3.589	4.7	1.6	0.999	0.999	1.69	2.55	4.225	4.61
00932	SODIUM, PERCENT	08/07/73-08/21/80	18	32.	32.222	45.	26.	19.712	4.44	26.	30.75	34.	39.6
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/07/73-09/22/93	20	8.4	7.57	12.	3.5	6.417	2.533	4.	4.75	9.15	10.9
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/07/73-09/22/93	20	225.	194.65	260.	63.	4251.818	65.206	70.4	132.5	237.5	250.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/07/73-09/22/93	20	2200.	1714.5	2800.	320.	778983.947	882.601	402.	487.5	2200.	2590.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	08/07/73-09/22/93	20	0.3	0.315	0.5	0.2	0.007	0.081	0.2	0.3	0.3	0.49
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/07/73-09/22/93	20	9.35	9.52	12.	7.8	1.206	1.098	8.1	8.725	10.	11.
01046	IRON, DISSOLVED (UG/L AS FE)	08/07/73-08/21/80	18	40.	42.778	110.	5.	841.83	29.014	5.	20.	62.5	83.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/07/73-08/21/80	18	275.	245.556	520.	30.	26990.85	164.289	48.	57.5	335.	511.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/07/73-08/21/80	18	3735.	2832.389	4190.	797.	1895343.31	1376.715	821.3	1029.25	3790.	3938.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/07/73-08/21/80	18	24.5	40.768	105.	8.63	906.264	30.104	13.553	20.175	72.475	86.55
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/07/73-08/21/80	18	5.08	3.851	5.7	1.08	3.506	1.872	1.116	1.398	5.15	5.358

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 6/01 to 7/14 - Station COLM0039

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/03/73-09/22/93	14	17.75	16.071	21.5	8.	14.918	3.862	9.25	12.375	18.5	20.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/09/74-09/22/93	6	44.	43.5	55.	32.	99.9	9.995	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/07/73-09/22/93	12	1110.	1208.333	1820.	845.	89156.061	298.59	869.	1045.	1337.5	1793.
00300p	OXYGEN, DISSOLVED MG/L	08/07/73-03/24/92	4	7.25	7.35	7.7	7.2	0.057	0.238	**	**	**	**
00400p	PH (STANDARD UNITS)	08/07/73-09/22/93	6	8.15	8.035	8.21	7.4	0.099	0.315	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	08/07/73-09/22/93	6	8.147	7.906	8.21	7.4	0.119	0.345	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/07/73-09/22/93	6	0.007	0.012	0.04	0.006	0.	0.013	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/07/73-08/21/80	4	134.	142.	180.	120.	798.	28.249	**	**	**	**
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/07/73-02/05/92	4	1.7	1.7	1.9	1.5	0.033	0.183	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/07/73-08/21/80	4	480.	497.5	620.	410.	9425.	97.082	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/07/73-08/21/80	4	340.	352.5	440.	290.	5025.	70.887	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/73-09/22/93	5	120.	132.	170.	110.	570.	23.875	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/73-09/22/93	5	33.	36.6	47.	29.	62.8	7.925	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	08/07/73-09/22/93	5	86.	87.4	180.	0.	4146.8	64.396	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/07/73-08/21/80	4	1.85	2.1	3.2	1.5	0.567	0.753	**	**	**	**
00932	SODIUM, PERCENT	08/07/73-08/21/80	4	29.5	31.25	39.	27.	28.25	5.315	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

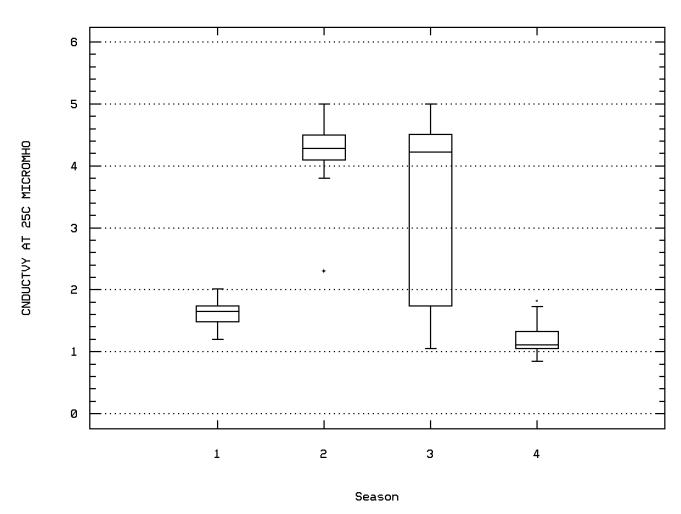
Seasonal Analysis for Season #4: 6/01 to 7/14 - Station COLM0039

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	08/07/73-09/22/93	5	3.4	3.7	5.3	2.9	0.955	0.977	**	**	**	**
00940p	CHLORIDE, TOTAL IN WATER MG/L	08/07/73-09/22/93	5	79.	96.4	200.	56.	3520.3	59.332	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/07/73-09/22/93	5	340.	404.	550.	330.	9530.	97.622	**	**	**	**
00950p	FLUORIDE, DISSOLVED (MG/L ÁS F)	08/07/73-09/22/93	5	0.3	0.28	0.4	0.2	0.007	0.084	**	**	**	**
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/07/73-09/22/93	5	8.5	8.04	9.	6.8	1.223	1.106	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/07/73-08/21/80	4	35.	32.5	40.	20.	91.667	9.574	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/07/73-08/21/80	4	30.	35.	50.	30.	100.	10.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/07/73-08/21/80	4	843.	916.75	1280.	701.	69016.25	262.709	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/07/73-08/21/80	4	93.	105.85	173.	64.4	2281.823	47.768	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/07/73-08/21/80	4	1.145	1.245	1.74	0.95	0.128	0.357	**	**	**	**

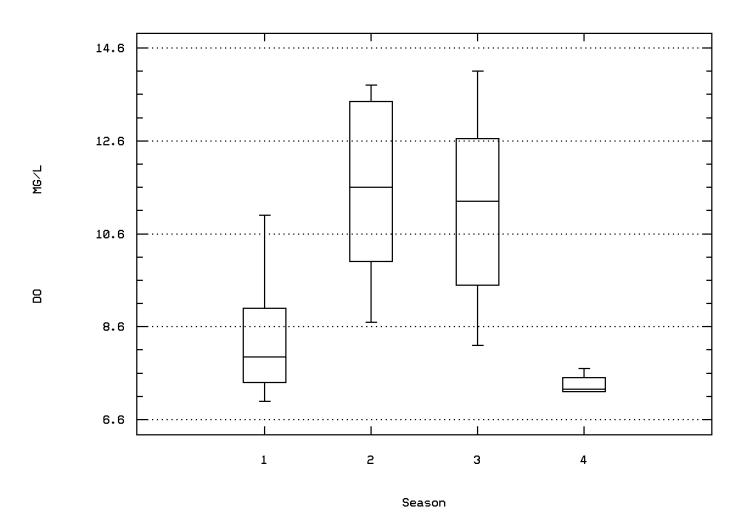
^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: COLM0039 Parameter Code: 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)

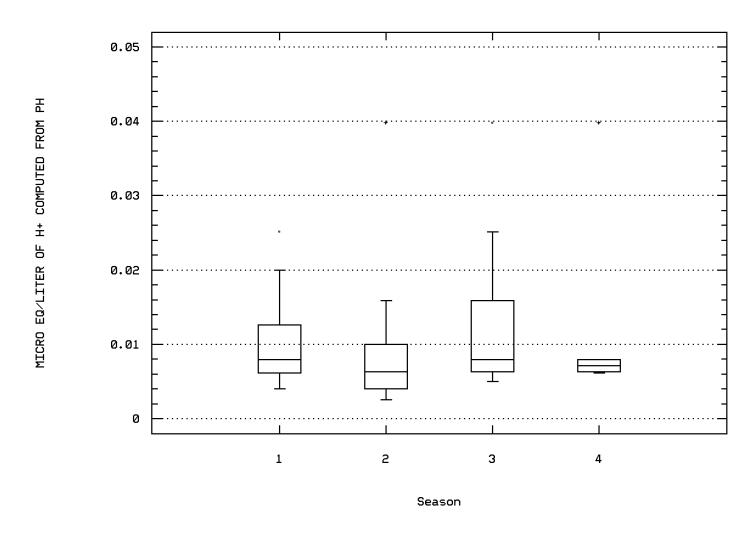
(X 1000)



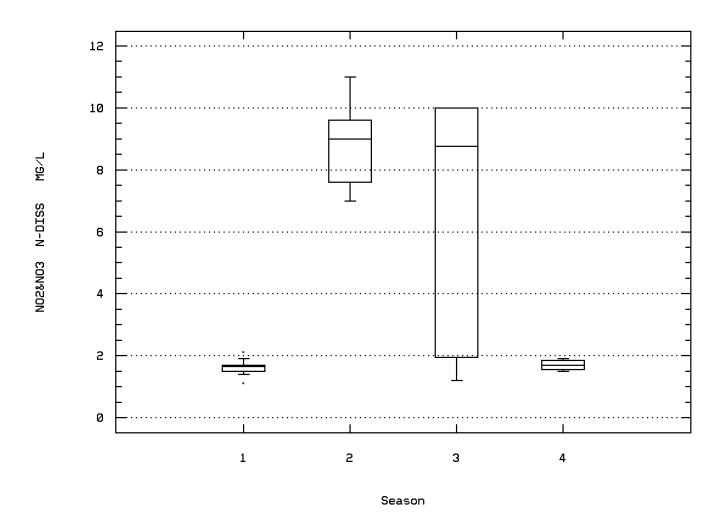
Station: COLM0039 Parameter Code: 00300
OXYGEN, DISSOLVED



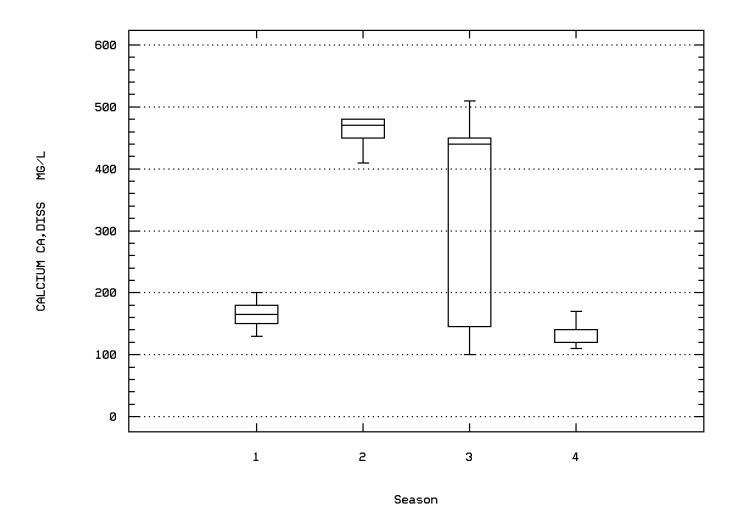
Station: COLM0039 Parameter Code: 00400 MICRO EQ/LITER OF H+ COMPUTED FROM PH



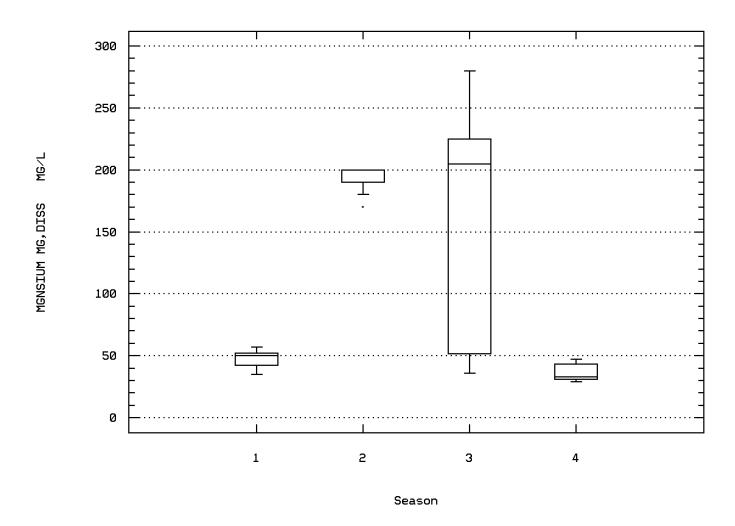
Station: COLM0039 Parameter Code: 00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/



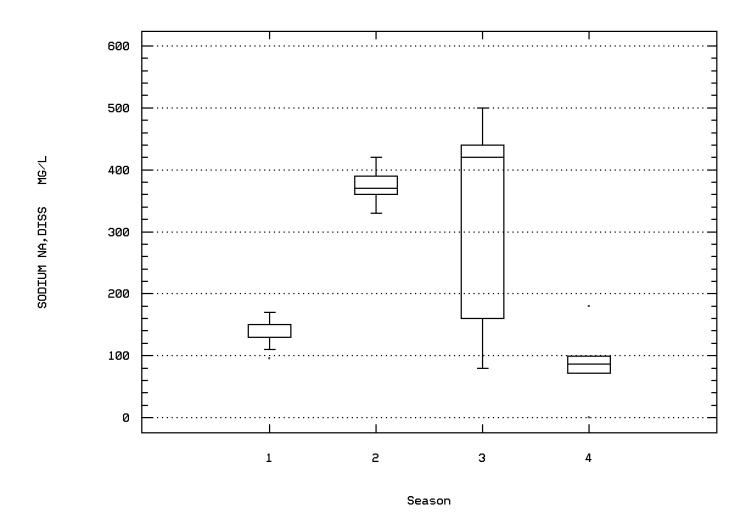
Station: COLM0039 Parameter Code: 00915 CALCIUM, DISSOLVED (MG/L AS CA)



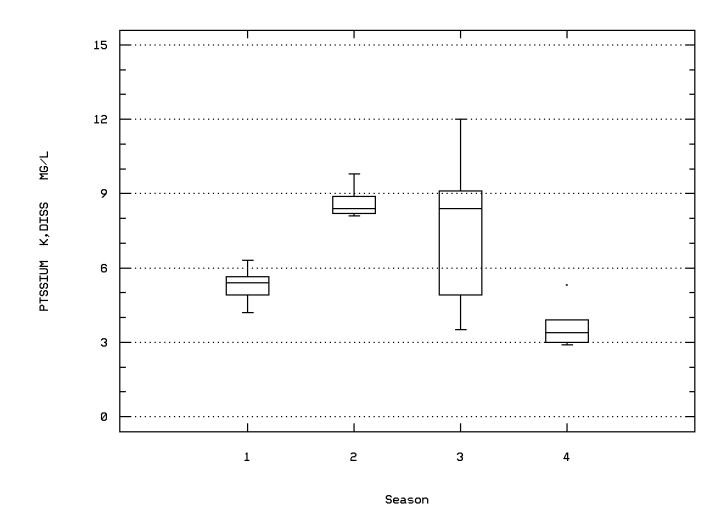
Station: COLM0039 Parameter Code: 00925 MAGNESIUM, DISSOLVED (MG/L AS MG)



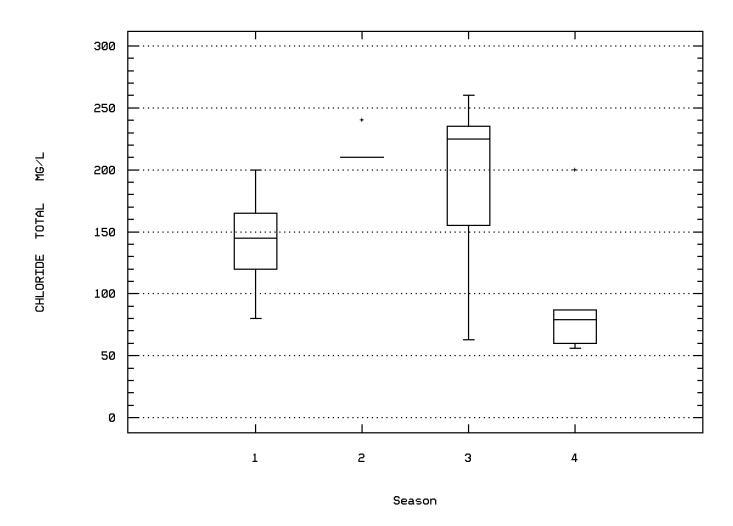
Station: COLM0039 Parameter Code: 00930 SODIUM, DISSOLVED (MG/L AS NA)



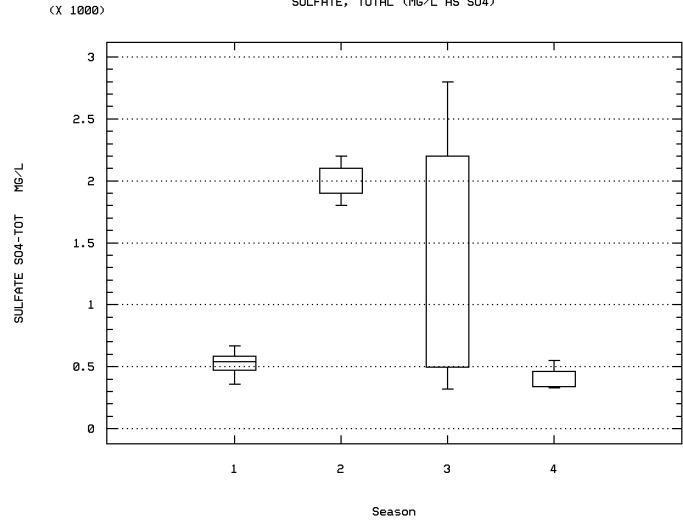
Station: COLM0039 Parameter Code: 00935 POTASSIUM, DISSOLVED (MG/L AS K)



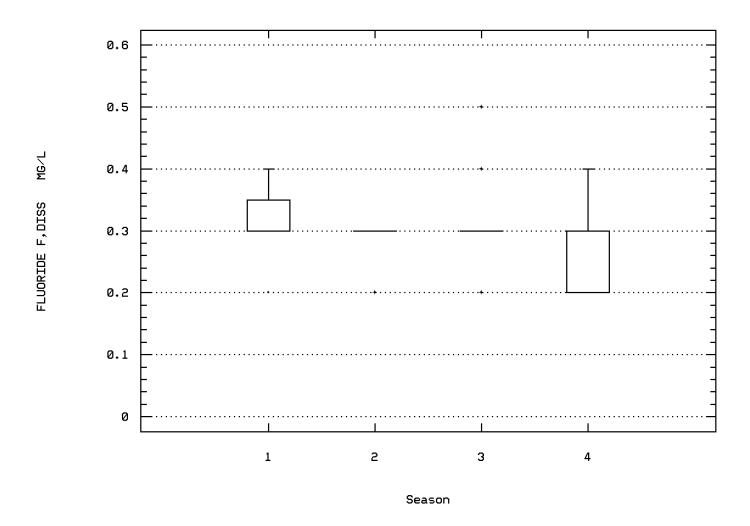
Station: COLM0039 Parameter Code: 00940 CHLORIDE, TOTAL IN WATER



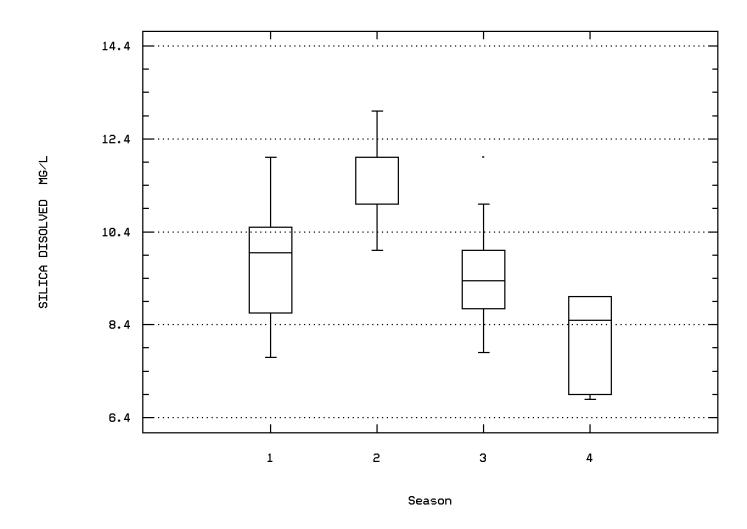
Station: COLM0039 Parameter Code: 00945 SULFATE, TOTAL (MG/L AS S04)



Station: COLM0039 Parameter Code: 00950 FLUORIDE, DISSOLVED (MG/L AS F)



Station: COLM0039 Parameter Code: 00955 SILICA, DISSOLVED (MG/L AS SI02)



NPS Station ID: COLM0040 LAT/LON: 39.136949/-108.730560 Location: COLO RIVER AT OLD NATL. MONUMENT BRIDGE, FRUITA

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Hidexes: RMI-Miles: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RFI Index: 14010005009

RF3 Index: 14010005011500.00 Description:

Depth of Water: 0 Elevation: 0

RF3 Mile Point: 6.35

RF1 Mile Point: 1.820

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010243 /GV0243 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.03

On/Off RF1: ON On/Off RF3:

Date Created: 08/28/82

Parameter Inventory for Station: COLM0040

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 25th 90th

****** No Parameter Data Available for this Station *******

NPS Station ID: COLM0041 Location: COLORADO RIVER NEAR FRUITA, CO.

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14010005 Major Basin: Minor Basin:

RF1 Index: 14010005 RF3 Index: 14020005000112.09 Description:

LAT/LON: 39.137503/-108.730281

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 09153000 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01

On/Off RF1: On/Off RF3:

Date Created: / /

Parameter Inventory for Station: COLM0041

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/03/94-09/08/95	9	230.	316.778	550.	220.	19369.194	139.173	220.	221.	475.	550.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/70-09/08/95	13	10.5	10.485	21.	0.3	37.611	6.133	1.22	6.35	15.45	20.24
00060	FLOW, STREAM, MEAN DAILY CFS	10/15/70-10/15/70	1	6480.	6480.	6480.	6480.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/03/94-09/08/95	8	3161.	4294.	10600.	2770.	6971088.	2640.282	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/03/94-09/08/95	12	1045.	895.167	1335.	313.	145531.606	381.486	315.4	557.25	1192.75	1324.5
00400	PH (STANDARD UNITS)	06/09/95-09/08/95	4	8.12	8.135	8.2	8.1	0.002	0.047	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/09/95-09/08/95	4	8.12	8.133	8.2	8.1	0.002	0.047	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/09/95-09/08/95	4	0.008	0.007	0.008	0.006	0.	0.001	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/20/94-09/08/95	13	8.	7.985	8.1	7.6	0.021	0.146	7.68	7.95	8.1	8.1
00403	CONVERTED PH, LAB, STANDARD UNITS	07/20/94-09/08/95	13	8.	7.958	8.1	7.6	0.022	0.149	7.68	7.95	8.1	8.1
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/20/94-09/08/95	13	0.01	0.011	0.025	0.008	0.	0.005	0.008	0.008	0.011	0.021
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/20/94-09/08/95	13	85.	81.923	120.	34.	1014.41	31.85	34.4	52.	110.	120.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/20/94-09/08/95	13	29.	24.992	38.	8.	115.601	10.752	8.36	14.5	34.5	37.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/20/94-09/08/95	13	87.	72.923	110.	15.	1319.91	36.331	15.8	37.5	105.	110.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/20/94-09/08/95	13	3.6	3.223	5.	1.4	1.315	1.147	1.4	2.15	4.1	4.64
00940	CHLORIDE, TOTAL IN WATER MG/L	07/20/94-09/08/95	13	69.	65.846	120.	10.	1520.474	38.993	10.8	31.5	104.	120.
00945	SULFATE, TOTAL (MG/L AS SO4)	07/20/94-09/08/95	13	250.	232.077	380.	51.	14671.744	121.127	53.	115.	350.	376.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/20/94-09/08/95	13	0.3	0.323	0.5	0.2	0.009	0.093	0.2	0.25	0.4	0.46
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/20/94-09/08/95	13	10.	10.762	14.	8.9	2.164	1.471	9.18	9.75	11.5	13.6
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/15/70-10/15/70	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/15/70-10/15/70	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	10/15/70-10/15/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/15/70-10/15/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/15/70-10/15/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/15/70-10/15/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/15/70-10/15/70	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/20/94-09/08/95	13	3.	3.269	6.	0.5	3.734	1.932	0.5	1.25	5.	5.6
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	07/20/94-04/18/95	8	751.	755.125	898.	429.	22038.125	148.452	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/15/70-10/15/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 0.000

RF3 Mile Point: 12.09

				Total	Exceed	Prop.		-7/15-10/19			10/20-1/14-			1/15-5/31-			6/01-7/14	
Paramet		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	4	0	$0.0\bar{0}$	3	0	0.00			-			-	1	0	0.00
		Other-Lo Lim.	6.5	4	0	0.00	3	0	0.00							1	0	0.00
00403	PH, LAB	Fresh Chronic	9.	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00
		Other-Lo Lim.	6.5	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00
		Drinking Water	250.	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	13	8	0.62	6	4	0.67	3	3	1.00	3	1	0.33	1	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSÓLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00
	•	Drinking Water	50.	13	0	0.00	6	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	•	Drinking Water	2.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Agency: 11NPSWRD FIPS State/County: 08077 COLORADO/MESA

Within Park Boundary: No

Distance from RF1: 8.10

Distance from RF3: 0.65

Aquifer: Water Body Id:

ECO Region:

STORET Station ID(s): COLM NURE 06/3117496

Date Created: 08/08/98

On/Off RF1:

On/Off RF3:

NPS Station ID: COLM0042 Location: 125102

LAT/LON: 39.141115/-108.696115

Depth of Water: 0

Elevation: 0

Station Type: /TYPA/AMBNT/STREAM

RMI-Indexes: RMI-Miles:

HUC: 14010005 Major Basin: COLORADO RIVER

Minor Basin: UPPER COLORADO RIVER

RF1 Index: 14010005

Description:

RF3 Index: 14030001001504.67

RF1 Mile Point: 0.000 RF3 Mile Point: 6.12

THE STATION IS LOCATED ON THE FRUITA CO 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE COLORADO NATIONAL MONUMENT PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A 0.45 UM MEMBRANE FILTER AND ACIDIFIED TO A PH OF LESS THAN OR EQUAL TO 1 WITH REAGENT-GRADE NITRIC ACID PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "LASLID" FIELD ENTRY (LOS ALAMOS SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. SAMPLES WERE ANALYZED BY LOS ALAMOS SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: COLM0042

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/18/77-08/18/77	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	08/18/77-08/18/77	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/18/77-08/18/77	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/18/77-08/18/77	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/18/77-08/18/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/18/77-08/18/77	1	3.05	3.05	3.05	3.05	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

			Total	Exceed	Prop.		7/15-10/19)		-10/20-1/14			1/15-5/31-			6/01-7/14-	
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	1	1	1.00	1	1	1.00			-						
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703 URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0043 Location: COLORADO RIVER AT FRUITA

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14010005

Major Basin: Minor Basin:

RF1 Index: 14010005009 RF3 Index: 14010005001204.20 Description:

LAT/LON: 39.141115/-108.737504

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 1.430

RF3 Mile Point: 6.36

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390828108441500 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.03

On/Off RF1: ON On/Off RF3:

Date Created: 01/25/77

Parameter Inventory for Station: COLM0043

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/10/76-11/11/76	9	7.	6.722	7.5	5.5	0.319	0.565	5.5	6.5	7.	7.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/10/76-11/11/76	9	1150.	1144.444	1225.	1030.	5471.528	73.97	1030.	1075.	1212.5	1225.
00300	OXYGEN, DISSOLVED MG/L	11/10/76-11/11/76	9	10.6	10.856	12.	9.9	0.67	0.819	9.9	10.1	11.65	12.
00400	PH (STANDARD UNITS)	11/10/76-11/11/76	9	8.5	8.5	8.6	8.4	0.007	0.087	8.4	8.4	8.6	8.6
00400	CONVERTED PH (STANDARD UNITS)	11/10/76-11/11/76	9	8.5	8.492	8.6	8.4	0.008	0.087	8.4	8.4	8.6	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/10/76-11/11/76	9	0.003	0.003	0.004	0.003	0.	0.001	0.003	0.003	0.004	0.004
00600	NITROGEN, TOTAL (MG/L AS N)	11/10/76-11/11/76	9	1.2	1.37	2.9	0.88	0.422	0.649	0.88	0.925	1.65	2.9
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/10/76-11/11/76	9	0.51	0.466	0.69	0.21	0.028	0.168	0.21	0.305	0.615	0.69
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/10/76-11/11/76	9 ##	0.005	0.014	0.05	0.005	0.	0.016	0.005	0.005	0.02	0.05
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/10/76-11/11/76	9	0.51	0.477	0.74	0.24	0.029	0.171	0.24	0.31	0.62	0.74
00630	NITRITE PLUS NITRATÉ, TOTAL 1 DET. (MG/L AS N)	11/10/76-11/11/76	9	0.72	0.876	2.2	0.37	0.295	0.543	0.37	0.605	0.985	2.2
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/10/76-11/11/76	9	0.05	0.053	0.09	0.03	0.	0.017	0.03	0.045	0.06	0.09
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/10/76-11/11/76	9	0.02	0.019	0.04	0.005	0.	0.014	0.005	0.005	0.03	0.04
71887	NITROGEN, TOTAL, AS NO3 - MG/L	11/10/76-11/11/76	9	5.1	6.022	13.	3.9	8.562	2.926	3.9	4.1	7.2	13.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-7/15-10/19			10/20-1/14-			1/15-5/31-			6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	$0.0\bar{0}$			-	9	0	0.00			-			
00400	PH	Fresh Chronic	9.	9	0	0.00				9	0	0.00						
		Other-Lo Lim.	6.5	9	0	0.00				9	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00				9	0	0.00						

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0044 Location: COLORADO RIVER NEAR FRUITA COLO.

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes:

RMI-Miles: HUC: 14010005 Major Basin:

Minor Basin:

RF1 Index: 14010005009 RF3 Index: 14010005055800.00 Description:

LAT/LON: 39.141670/-108.737781

Depth of Water: 0 Elevation: 0

RF1 Mile Point: 1.280 RF3 Mile Point: 0.99

Agency: 112WRD FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): 390830108441601 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.01

On/Off RF1: ON On/Off RF3:

Date Created: 01/16/79

Parameter Inventory for Station: COLM0044

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/30/78-08/15/91	2	12.5	12.5	22.	3.	180.5	13.435	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/15/91-08/15/91	1	651.	651.	651.	651.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	11/30/78-08/15/91	2	1115.	1115.	1170.	1060.	6050.	77.782	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/15/91-08/15/91	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/30/78-08/15/91	2	8.4	8.4	8.5	8.3	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/30/78-08/15/91	2	8.389	8.389	8.5	8.3	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/30/78-08/15/91	2	0.004	0.004	0.005	0.003	0.	0.001	**	**	**	**
00405	CARBON ĎIOXIDE (MG/L AS CO2)	11/30/78-11/30/78	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/30/78-11/30/78	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/30/78-11/30/78	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/30/78-11/30/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/30/78-11/30/78	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/30/78-11/30/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00666	PHOSPHORÚS, DISSOÈVED (MG/L ÁS P)	11/30/78-11/30/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/30/78-11/30/78	1 #	# 0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/30/78-11/30/78	1	380.	380.	380.	380.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/30/78-11/30/78	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/30/78-11/30/78	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00925	MAGNESIÚM, DISSOLVÈD (MG/L AS MG)	11/30/78-11/30/78	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/30/78-11/30/78	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/30/78-11/30/78	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/30/78-11/30/78	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/30/78-11/30/78	ĺ	3.7	3.7	3.7	3.7	Õ.	Õ.	**	**	**	**
00940	CHLORIDE.TOTAL IN WATER MG/L	11/30/78-11/30/78	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/30/78-11/30/78	1	330.	330.	330.	330.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/30/78-11/30/78	ĺ	0.3	0.3	0.3	0.3	Õ.	Õ.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/30/78-11/30/78	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/30/78-11/30/78	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/30/78-11/30/78	ĺ	40.	40.	40.	40.	Õ.	Õ.	**	**	**	**
30282	METHIOCARB, WATER, WHOLE, RECOVERABLE, UG/L	08/15/91-08/15/91	1#	# 0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
30296	PROPOXUR, WATER, WHOLE, RECOVERABLE, UG/L	08/15/91-08/15/91	1#		0.25	0.25	0.25	0.	0.	**	**	**	**
38932	CHLORPYRIFOS. TOTAL RECOVERABLE UG/L	08/15/91-08/15/91	1#		0.005	0.005	0.005	0.	0.	**	**	**	**
39011	DISYSTON, FLAME PHOTOMETRIC, WATER SAMPLE (UG/L)	08/15/91-08/15/91	1#		0.005	0.005	0.005	0.	0.	**	**	**	**
39023	PHORATE, FLAME IONIZATION, WATER SAMPLE (UG/L)	08/15/91-08/15/91	1#		0.005	0.005	0.005	0	0	**	**	**	**
39040	S.S.S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	08/15/91-08/15/91	1#		0.005	0.005	0.005	0.	0.	**	**	**	**
39051	METHOMYL IN WHOLE WATER (UG/L)	08/15/91-08/15/91	1#		0.25	0.25	0.25	0.	0.	**	**	**	**
39052	PROPHAM IN WHOLE WATER (UG/L)	08/15/91-08/15/91	1#		0.25	0.25	0.25	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	08/15/91-08/15/91	1#		0.005	0.005	0.005	Õ.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: COLM0044

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	08/15/91-08/15/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (ÙG/L)	08/15/91-08/15/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39560	DEMETON IN WHOLE WATER SAMPLE (UG/L)	08/15/91-08/15/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	08/15/91-08/15/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39580	GUTHION IN WHOLE WATER SAMPLE (ÙG/L)	08/15/91-08/15/91	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	08/15/91-08/15/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	08/15/91-08/15/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (ÚG/L)	08/15/91-08/15/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	08/15/91-08/15/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/30/78-11/30/78	1	784.	784.	784.	784.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/30/78-11/30/78	1	1.07	1.07	1.07	1.07	0.	0.	**	**	**	**
77441	1-NAPHTHOL WHOLE WATER,UG/L	08/15/91-08/15/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82088	TERBUFOS (COUNTER) TOTAL WHOLE WATER, UG/L	08/15/91-08/15/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82584	3-HYDROXÝ CARBOFÚRAN, WATER, TOTAL RECOVERABLE, UG/L	08/15/91-08/15/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE UG/L	08/15/91-08/15/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82587	ALDICARB SULFONE, WH WATER, TOTAL RECOVERABLE, UG/L	08/15/91-08/15/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82613	OXYAMYL, WHOLE WATER, TOTÁL RECOVERABLE UG/L	08/15/91-08/15/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82614	DYFONATE (FONOFOS), WATER, TOTAL RECOVERABLE, UG/L	08/15/91-08/15/91	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
82615	CARBOFURÀN, WHOLÉ WATER, TOTAL RECOVERABLE UG/L	08/15/91-08/15/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE UG/L	08/15/91-08/15/91	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

				Total	Exceed	Prop.		-7/15-10/19			-10/20-1/14			1/15-5/31-			-6/01-7/14-	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	$0.0\bar{0}$	1	0	0.00			-						
00400	PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00				1	1	1.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
38932	CHLORPYRIFOS, TOTAL RECOVERABLE	Fresh Acute	0.083	1	0	0.00	1	0	0.00									
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	1	0	0.00	1	0	0.00									
82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVER	Drinking Water	4.	1	0	0.00	1	0	0.00									
82587	ALDICARB SULFONE, WHOLE WATER, TOTAL REC	Drinking Water	2.	1	0	0.00	1	0	0.00									
82613	OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	Drinking Water	200.	1	0	0.00	1	0	0.00									
82615	CARBOFURAN, WHOLE WATER, TOTAL RECOVERAB	Drinking Water	40.	1	0	0.00	1	0	0.00									
82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	Drinking Water	3.	1	0	0.00	1	0	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Station ID: COLM0045 LAT/LON: 39.141948/-108.702781 Location: OUTFLOW INDEP RANCHMANS DITCH AND ADOBE WASH

Station Type: /CANAL/TYPA/AMBNT RMI-Indexes:

RMI-Hidexes: RMI-Miles: HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RFI Index: 14010005009

RF3 Index: 14010005056600.00 Description:

Depth of Water: 0 Elevation: 0

RF3 Mile Point: 0.00

RF1 Mile Point: 3.340

Agency: 11USBRUC FIPS State/County: 08077 COLORADO/MESA STORET Station ID(s): GJ010412 /FOT230 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region: Distance from RF1: 0.00 Distance from RF3: 0.32

On/Off RF1: OFF On/Off RF3:

Date Created: 08/28/82

Parameter Inventory for Station: COLM0045

Parameter Period of Record Obs Median Mean Maximum Minimum Variance Std. Dev. 10th 90th

****** No Parameter Data Available for this Station *******

NPS Station ID: COLM0046 Location: COLORADO RIVER NEAR FRUITA

Station Type: /TYPA/AMBNT/STREAM RMI-Indexes: 1101000

Description:

RMI-Miles: 1091.10 HUC: 14010005 Major Basin: COLORADO RIVER Minor Basin: UPPER COLORADO RIVER

RF1 Index: 14010005009 RF3 Index: 14010005001401.83 Depth of Water: 0 Elevation: 0

LAT/LON: 39.141670/-108.737781

RF1 Mile Point: 0.780 RF3 Mile Point: 3.27

COLORADO RIVER AT BRIDGE ON COLORADO HIGHWAY 340, UPSTREAM OF USGS STATION #09163500. LOCATED AT A SITE 1.1 MILE SOUTH OF FRUITA, MESA ELEVATION 4498 FEET

(STATION DISCONTINUED ON JANUARY 1, 1979.)

Agency: 21COL001 FIPS State/County: 08077 COLORADO/MESA

STORET Station ID(s): 000049 Within Park Boundary: No

Aquifer: Water Body Id: ECO Region:

Distance from RF1: 0.00 Distance from RF3: 0.74 On/Off RF1: ON On/Off RF3:

Date Created: / /

Parameter Inventory for Station: COLM0046

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	73	51.	51.09	76.	32.	176.441	13.283	34.	39.	62.	68.
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TÚRB UNIT)	02/20/68-12/04/78	60	120.5	197.87	1250.	3.3	61212.788	247.412	14.	28.75	296.25	450.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	01/09/68-12/04/78	74	1075.	1046.649	2300.	10.	131416.258	362.514	537.5	855.75	1249.	1459.
00300	OXYGEN, DISSOLVED MG/L	03/15/73-12/04/78	27	9.8	9.9	14.7	7.	4.425	2.103	7.46	8.3	11.8	13.02
00310p	BOD, 5 DAY, 20 DEG C MG/L	03/05/68-12/04/78	41	2.	2.102	4.3	0.8	0.667	0.817	1.	1.5	2.45	3.56
00335	COD, .025N K2CR2O7 MG/L	10/11/72-10/11/72	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	01/09/68-12/04/78	63	8.2	8.233	8.8	7.3	0.127	0.357	7.74	8.	8.5	8.7
00400p	CONVERTED PH (STANDARD UNITS)	01/09/68-12/04/78	63	8.2	8.069	8.8	7.3	0.155	0.394	7.74	8.	8.5	8.7
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/09/68-12/04/78	63	0.006	0.009	0.05	0.002	0.	0.009	0.002	0.003	0.01	0.018
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/12/78-12/04/78	2	140.	140.	150.	130.	200.	14.142	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	04/01/74-09/08/75	7	974.	1083.714	1920.	721.	169976.905	412.283	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	03/05/68-09/27/73	14	16.5	151.929	1073.	7.	107274.687	327.528	8.5	13.75	61.	907.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/05/68-12/04/78	42	149.	285.833	2630.	0.	217216.191	466.065	27.9	66.5	290.25	696.9
00545	RESIDUE, SETTLEABLE (ML/L)	03/05/68-05/17/73	15 ##	0.05	0.447	4.	0.05	1.033	1.016	0.05	0.05	0.3	2.2
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/17/68-12/04/78	54	0.08	0.191	1.2	0.	0.072	0.269	0.	0.	0.3	0.55
00615p	NITRITE NITROGEN, TÓTAL (MĠ/L AS N)	11/20/68-12/04/78	51	0.016	0.04	0.83	0.	0.013	0.116	0.	0.008	0.044	0.059
00620p	NITRATE NITROGEŃ, TOTAL (MG/L AS Ń)	09/17/68-12/04/78	57	0.9	1.107	4.5	0.	0.878	0.937	0.36	0.6	1.3	1.82
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	09/17/68-08/16/73	32	0.1	0.327	4.9	0.	0.768	0.876	0.	0.063	0.2	0.47
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/01/74-12/04/78	17	0.05	0.123	0.79	0.	0.037	0.194	0.	0.	0.175	0.374
00723p	CYANIDE, DISSOLVED STD METHOD (UG/L)	02/20/68-12/04/78	41	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	02/20/68-12/04/78	61	362.	383.77	770.	144.	17506.28	132.311	220.8	300.	473.5	570.2
00910p	CALCIUM (MG/L AS CACO3)	02/20/68-12/04/78	58	247.	259.966	500.	11.	8827.297	93.954	148.7	200.5	308.	398.4
00927p	MAGNESIÙM, TOTAL (MG/L AS MG)	02/20/68-12/04/78	58	27.	29.879	88.	0.	219.371	14.811	13.8	20.75	37.25	45.1
00929p	SODIUM, TOTAL (MG/L AS NA)	02/20/68-12/04/78	61	100.	99.115	205.	13.	1339.237	36.596	45.8	79.5	120.	140.
00931p	SODIUM ADSORPTION RATIO	02/20/68-12/04/78	60	2.2	2.145	4.1	0.3	0.378	0.615	1.3	1.825	2.5	2.7
00937	POTASSIUM, TOTAL MG/L AS K)	04/12/78-04/12/78	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00940p	CHLORIDE, TOTAL IN WATER MG/L	02/20/68-12/04/78	61	86.	81.033	150.	3.	1078.166	32.835	29.2	60.5	104.	118.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	09/17/68-12/04/78	52	303.	336.942	740.	110.	20845.702	144.38	173.2	241.25	440.	529.1
00951	FLUORIDÉ, TOTAL (MG/L AS F)	02/20/68-07/14/77	42	0.425	0.44	0.7	0.2	0.017	0.132	0.3	0.3	0.5	0.6
00980p	IRON, TOTAL RECOVERABLE IN WATER AS FE UG/L	02/20/68-12/04/78	59	250.	1046.61	11200.	0.	5048933.139	2246.983	50.	100.	880.	2300.
01002p	ARSENIC, TOTAL (UG/L AS AS)	02/20/68-12/04/78	42	0.	0.631	24.	0.	13.793	3.714	0.	0.	0.	0.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: COLM0046

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01022	BORON, TOTAL (UG/L AS B)	01/09/68-09/06/77	44	80.	70.682	220.	0.	3480.92	58.999	0.	0.	115.	145.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	02/20/68-06/07/76	32	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01074	NICKEL,TOTAL RECOVERABLE IN WATER AS NI UG/L	12/04/78-12/04/78	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01079	SILVER,TOTAL RECOVERABLE IN WATER AS AG UG/L	11/20/68-08/09/76	18	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01094p	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	02/20/68-12/04/78	55	0.	40.909	400.	0.	7512.121	86.672	0.	0.	40.	168.
01104	ALUMINUM, TOTAL RECOVERABLE IN WATER AS AL UG/L	12/04/78-12/04/78	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
01113p	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD UG/L	01/09/68-12/04/78	43	0.	0.135	4.	0.	0.401	0.633	0.	0.	0.	0.009
01114p	LEAD, TOTAL RECOVERABLE IN WATER AS PB UG/L	02/20/68-12/04/78	43	0.	3.523	30.	0.	55.416	7.444	0.	0.	4.5	14.
01118	CHROMIUM TOTAL RECOVERABLE IN WATER AS CR UG/L	08/09/76-11/09/77	7	0.	0.	0.	0.	0.	0.	**	**	**	**
01119p	COPPER,TOTAL RECOVERABLE IN WATER AS CU UG/L	02/20/68-12/04/78	45	0.	6.067	100.	0.	366.609	19.147	0.	0.	1.5	12.4
01123p	MANGANESE, TOTAL RECOVERABLE IN WATER AS MN UG/L	02/20/68-12/04/78	57	0.	49.035	700.	0.	13279.856	115.238	0.	0.	47.5	160.
01129	MOLYBDENUM, TOTAL RECOVERABLE IN WATER AS MB UG/L	02/03/71-07/14/77	21	0.	4.333	20.	0.	36.033	6.003	0.	0.	10.	14.
01147p	SELENIUM, TOTAL (UG/L AS SE)	02/20/68-12/04/78	48	4.	4.323	12.	0.	16.473	4.059	0.	0.	8.	10.
01503	ALPHA, DISSOLVED	03/04/69-11/09/77	36	14.5	15.914	41.	0.9	100.164	10.008	2.7	9.5	23.	27.2
01504	ALPHA, DISSOLVED, COUNTING ERROR	03/04/69-11/09/77	36	15.	14.694	20.	11.	4.504	2.122	12.	13.	16.	17.3
03501	BETA, TOTAL	04/12/78-04/12/78	1	10.	10.	10.	10.	0.	0.	**	**	**	**
03503	BETA, DISSOLVED	03/04/69-09/06/77	15	9.	8.586	26.	0.09	72.019	8.486	0.276	0.8	15.	21.8
03504	BETA, DISSOLVED, COUNTING ERROR	03/04/69-09/06/77	15	10.	7.527	13.	0.3	27.465	5.241	0.3	1.	12.	12.4
09503	RADIUM 226, DISSOLVED	07/24/69-04/01/74	7	0.2	0.196	0.31	0.13	0.004	0.063	**	**	**	**
09504	RADIUM 226, DISSOLVED, COUNTING ERROR	07/24/69-04/01/74	7	0.1	0.103	0.12	0.09	0.	0.01	**	**	**	**
31505p	COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506)	01/09/68-04/12/78	69	3450.	30089.522	345000.	38. 4962	2141635.783	70442.47	220.	815.	27000.	49000.
31505p	LOG COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 3150	01/09/68-04/12/78	69	3.538		5.538	1.58	0.942	0.971	2.342	2.91	4.429	4.69
31505p	GM COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506	GEOMETRIC MEAN	1 =		4067.059								
31615p	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/09/68-10/02/78	68	500.	3746.456	30000.	2. 52	294725.237	7231.509	29.3	167.5	3300.	14000.
31615p	LOG FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	01/09/68-10/02/78	68	2.699		4.477	0.301	0.943	0.971	1.466	2.218	3.519	4.139
31615p	GM FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	GEOMETRIC MEAN	V =		605.46								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	04/16/69-09/06/77	35	0.	0.011	0.4	0.	0.005	0.068	0.	0.	0.	0.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/09/68-12/04/78	63	732.	769.19	1690.	137.	76483.415	276.556	403.2	641.	900.	1142.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

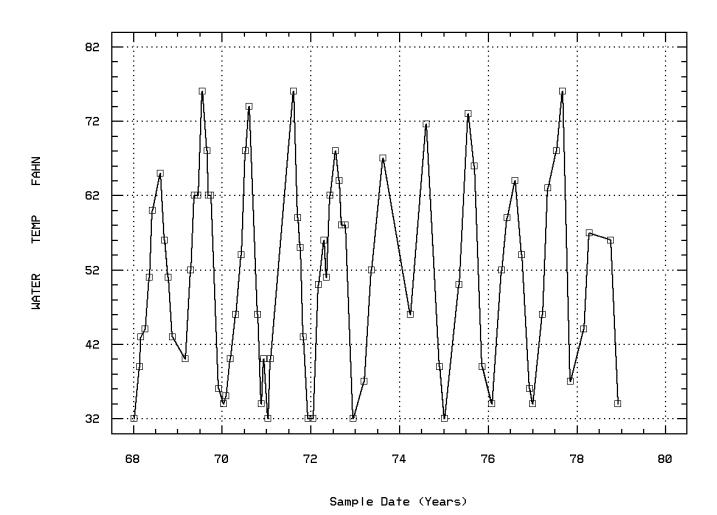
				Total	Exceed	Prop.		-7/15-10/19-			-10/20-1/14-			1/15-5/31-			6/01-7/14	
Paramet		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	60	40	0.67	21	14	0.67	11	2	0.18	23	19	0.83	5	5	1.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	27	0	0.00	8	0	0.00	7	0	0.00	10	0	0.00	2	0	0.00
00400	PH	Fresh Chronic	9.	63	0	0.00	21	0	0.00	16	0	0.00	20	0	0.00	6	0	0.00
		Other-Lo Lim.	6.5	63	0	0.00	21	0	0.00	16	0	0.00	20	0	0.00	6	0	0.00
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	51	0	0.00	17	0	0.00	12	0	0.00	17	0	0.00	5	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	57	0	0.00	20	0	0.00	13	0	0.00	19	0	0.00	5	0	0.00
00723	CYANIDE, DISSOLVED STD METHOD	Fresh Acute	22.	41	0	0.00	12	0	0.00	8	0	0.00	17	0	0.00	4	0	0.00
		Drinking Water	200.	41	0	0.00	12	0	0.00	8	0	0.00	17	0	0.00	4	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	61	0	0.00	20	0	0.00	12	0	0.00	24	0	0.00	5	0	0.00
		Drinking Water	250.	61	0	0.00	20	0	0.00	12	0	0.00	24	0	0.00	5	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	52	38	0.73	18	16	0.89	12	10	0.83	18	11	0.61	4	1	0.25
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	42	0	0.00	11	0	0.00	10	0	0.00	17	0	0.00	4	0	0.00
01002	ARSENIC, TOTAL	Fresh Acute	360.	42	0	0.00	12	0	0.00	8	0	0.00	19	0	0.00	3	0	0.00
		Drinking Water	50. 16.	42 32	0	0.00	12	0	0.00	8	0	0.00	19	0	0.00	3	0	0.00
01032	CHROMIUM, HEXAVALENT	Fresh Acute		32	0	0.00	8	0	0.00	6	0	0.00	15	0	0.00	3	0	0.00
		Drinking Water	100.	32	0	0.00	8	0	0.00	6	0	0.00	15	0	0.00	3	0	0.00
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	1	1.00				1	1	1.00						
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG	Fresh Acute	4.1	18	0	0.00	5	0	0.00	4	0	0.00	7	0	0.00	2	0	0.00
		Drinking Water	100.	18	0	0.00	5	0	0.00	4	0	0.00	7	0	0.00	2	0	0.00
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN	Fresh Acute	120.	55	6	0.11	18	2	0.11	11	0	0.00	21	3	0.14	5	1	0.20
		Drinking Water	5000.	55	0	0.00	18	0	0.00	11	0	0.00	21	0	0.00	5	0	0.00
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD	Fresh Acute	3.9	43	1	0.02	12	1	0.08	10	0	0.00	17	0	0.00	4	0	0.00
		Drinking Water	5.	43	0	0.00	12	0	0.00	10	0	0.00	17	0	0.00	4	0	0.00
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB	Fresh Acute	82.	43	0	0.00	12	0	0.00	9	0	0.00	18	0	0.00	4	0	0.00
		Drinking Water	15.	43	3	0.07	12	2	0.17	9	0	0.00	18	1	0.06	4	0	0.00

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

				Total	Exceed	Prop.	7/15-10/19		10/20-1/14			1/15-5/31			6/01-7/14			
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
01118	CHROMIUM TOTAL RECOVERABLE IN WATER AS C	Drinking Water	100.	7	0	$0.0\bar{0}$	3	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00
01119	COPPER, TOTAL RECOVERABLE IN WATER AS CU	Fresh Acute	18.	45	3	0.07	12	2	0.17	11	0	0.00	18	1	0.06	4	0	0.00
		Drinking Water	1300.	45	0	0.00	12	0	0.00	11	0	0.00	18	0	0.00	4	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute	20.	48	0	0.00	16	0	0.00	9	0	0.00	19	0	0.00	4	0	0.00
		Drinking Water	50.	48	0	0.00	16	0	0.00	9	0	0.00	19	0	0.00	4	0	0.00
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	69	49	0.71	22	18	0.82	16	10	0.63	25	16	0.64	6	5	0.83
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	67 &	50	0.75	22	16	0.73	16	13	0.81	23	16	0.70	6	5	0.83

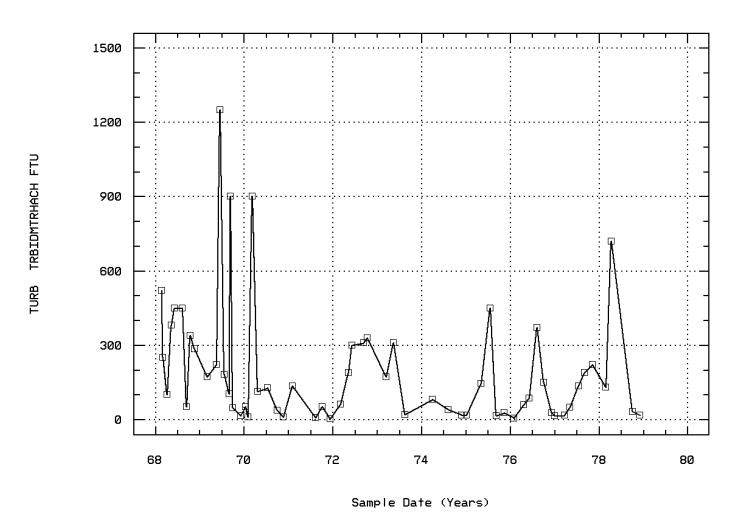
[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: COLM0046 Parameter Code: 00011
TEMPERATURE, WATER (DEGREES FAHRENHEIT)

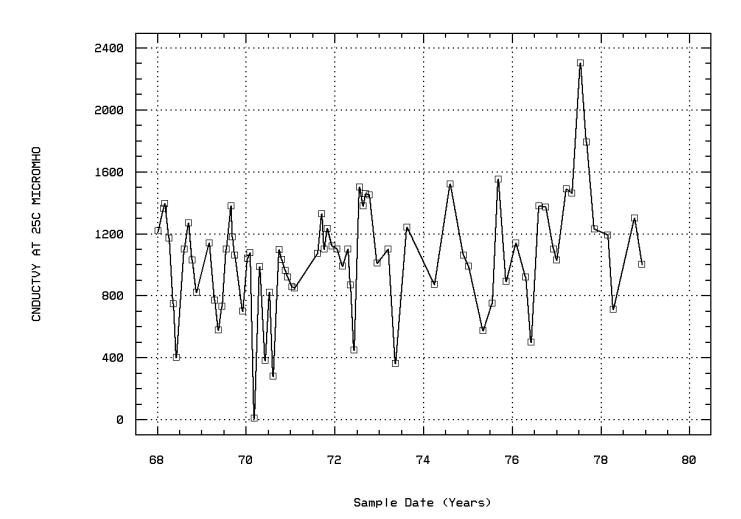


COLORADO RIVER NEAR FRUITA

Station: COLM0046 Parameter Code: 00076 TURBIDITY, HACH TURBIDIMETER (FORMAZIN T

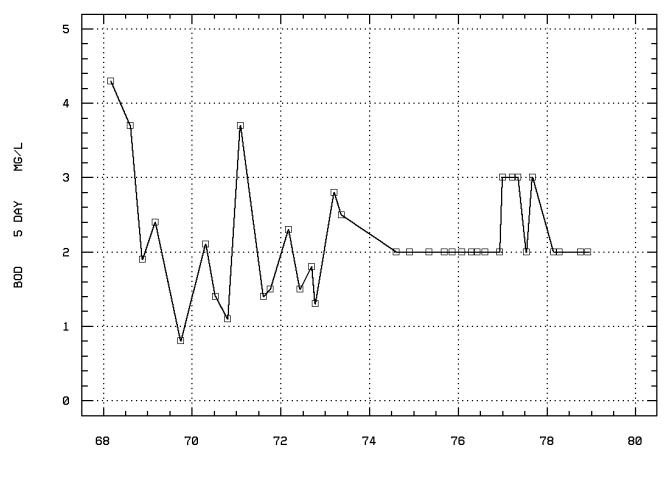


Station: COLM0046 Parameter Code: 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



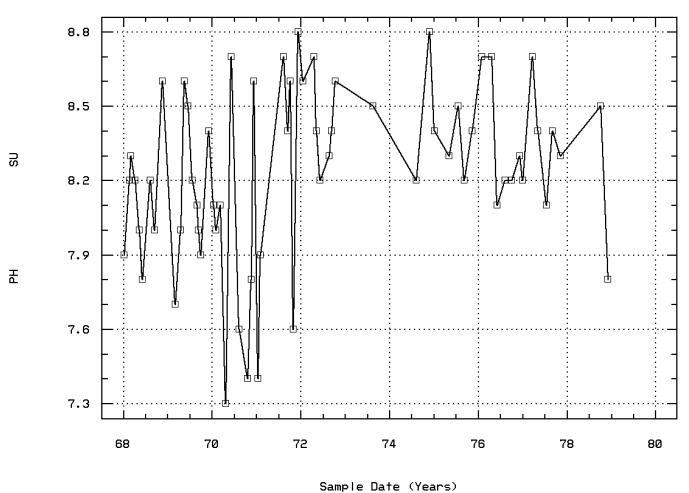
COLORADO RIVER NEAR FRUITA

Station: COLM0046 Parameter Code: 00310 BOD, 5 DAY, 20 DEG C



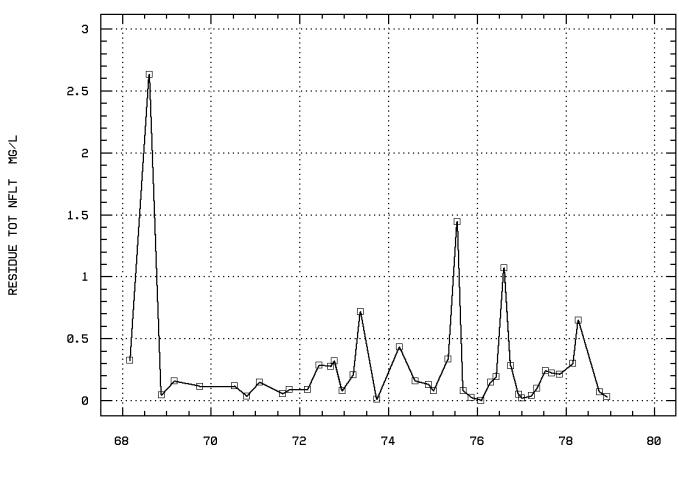
Sample Date (Years)

Station: COLM0046 Parameter Code: 00400 PH (STANDARD UNITS)



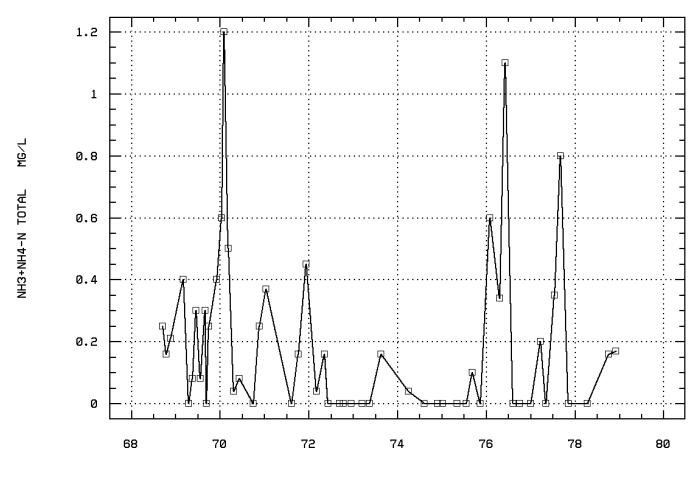
Station: COLM0046 Parameter Code: 00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)

(X 1000)



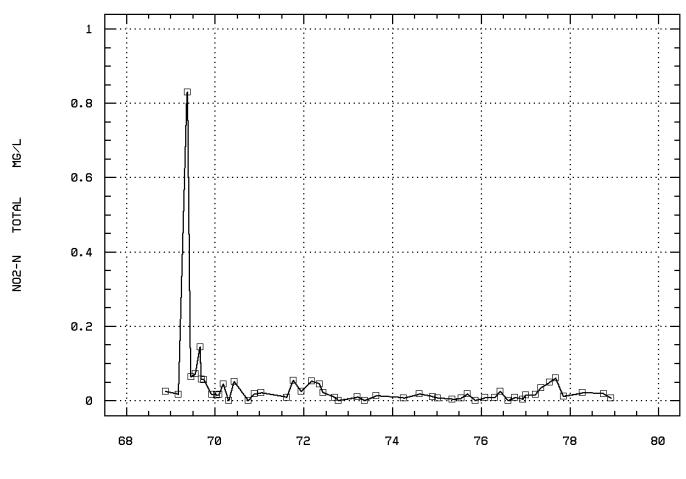
Sample Date (Years)

Station: COLM0046 Parameter Code: 00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)



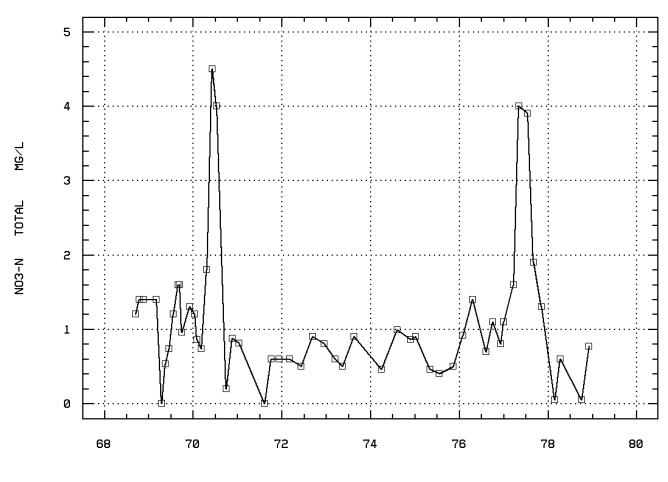
Sample Date (Years)

Station: COLM0046 Parameter Code: 00615 NITRITE NITROGEN, TOTAL (MG/L AS N)



Sample Date (Years)

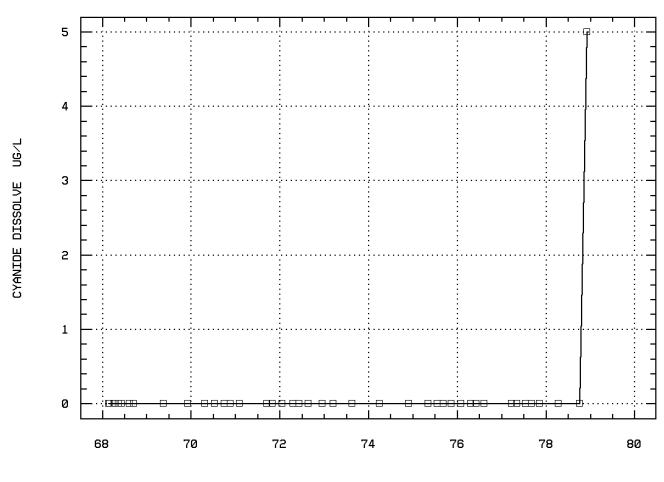
Station: COLM0046 Parameter Code: 00620 NITRATE NITROGEN, TOTAL (MG/L AS N)



Sample Date (Years)

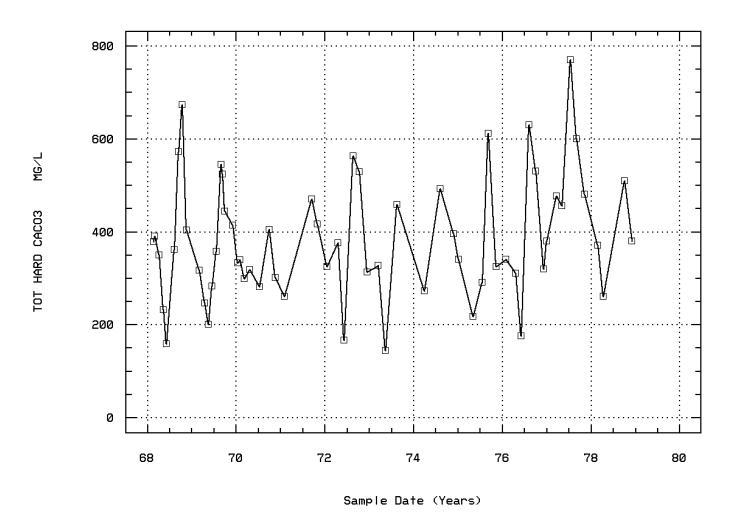
Station: COLM0046 Parameter Code: 00723
CYANIDE, DISSOLVED STD METHOD (UG/L

(X 0.001)



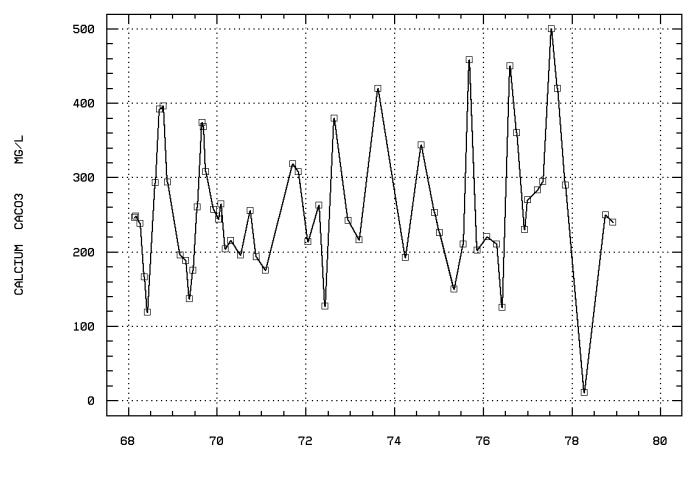
Sample Date (Years)

Station: COLM0046 Parameter Code: 00900 HARDNESS, TOTAL (MG/L AS CACO3)



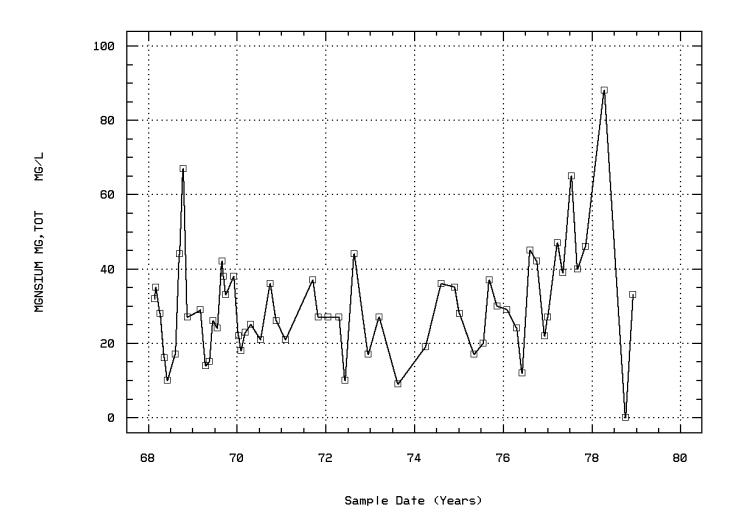
COLORADO RIVER NEAR FRUITA

Station: COLM0046 Parameter Code: 00910 CALCIUM (MG/L AS CACO3)



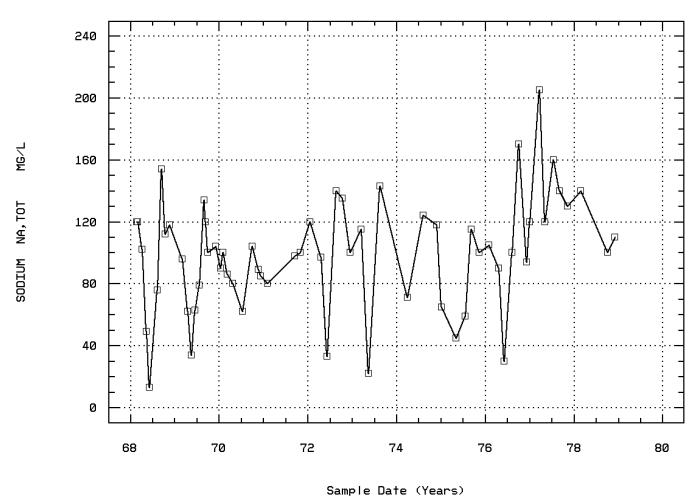
Sample Date (Years)

Station: COLM0046 Parameter Code: 00927 MAGNESIUM, TOTAL (MG/L AS MG)



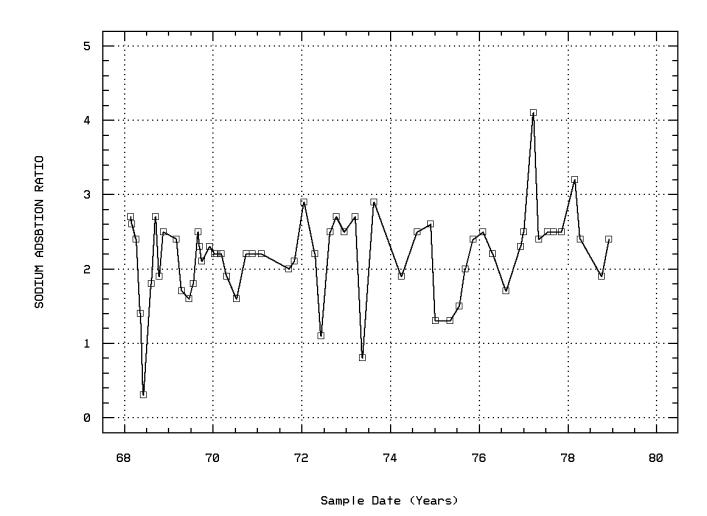
COLORADO RIVER NEAR FRUITA

Station: COLM0046 Parameter Code: 00929 SODIUM, TOTAL (MG/L AS NA)



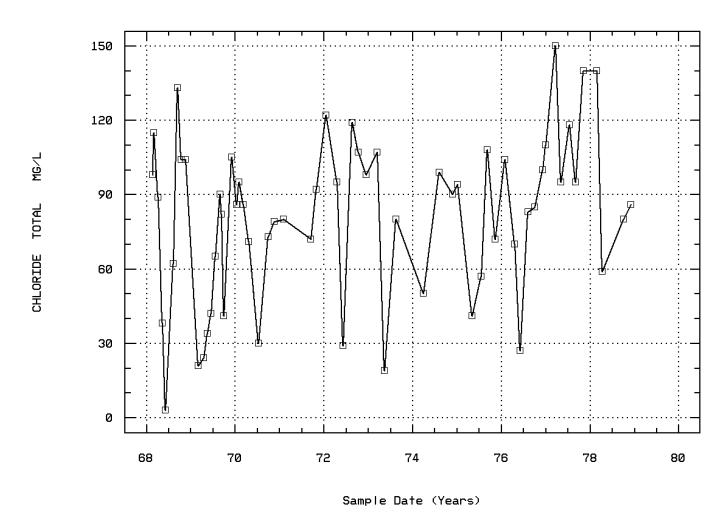
Campie Daie (Tear 5)

Station: COLM0046 Parameter Code: 00931 SODIUM ADSORPTION RATIO



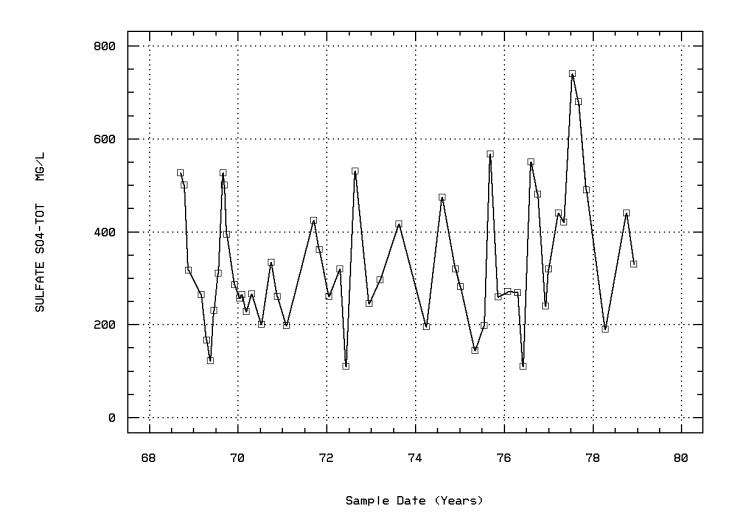
COLORADO RIVER NEAR FRUITA

Station: COLM0046 Parameter Code: 00940 CHLORIDE, TOTAL IN WATER



COLORADO RIVER NEAR FRUITA

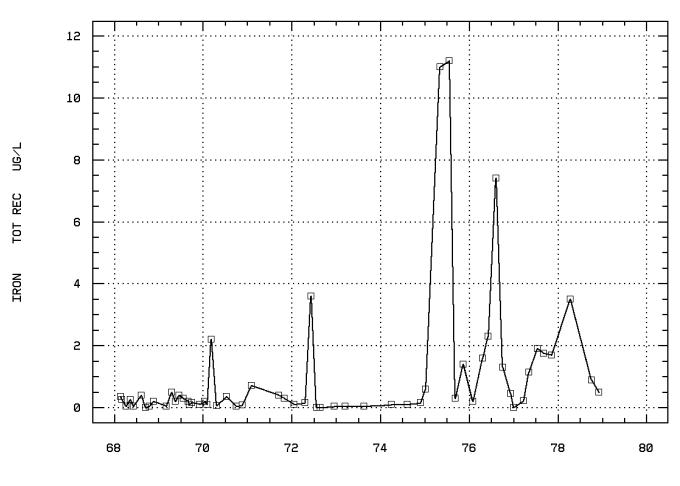
Station: COLM0046 Parameter Code: 00945 SULFATE, TOTAL (MG/L AS SO4)



COLORADO RIVER NEAR FRUITA

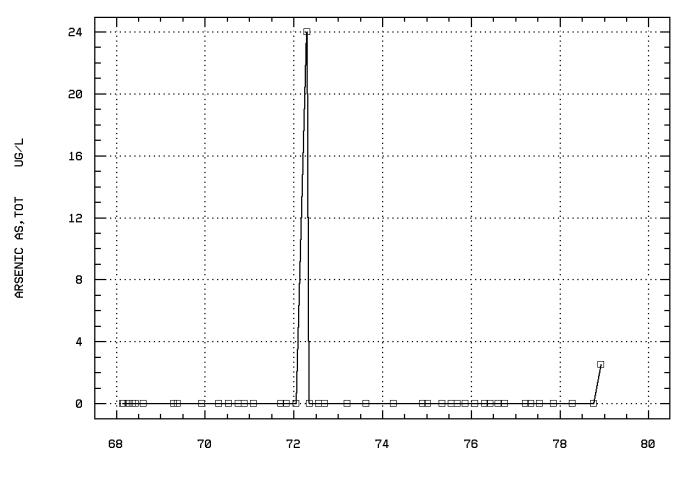
Station: COLM0046 Parameter Code: 00980 IRON, TOTAL RECOVERABLE IN WATER AS FE

(X 1000)



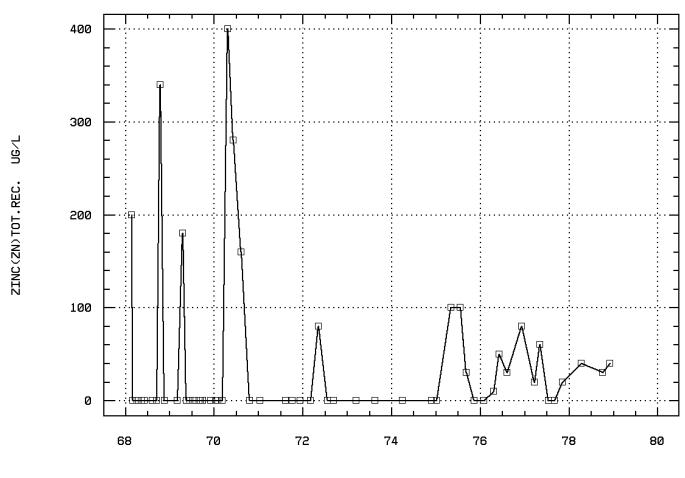
Sample Date (Years)

Station: COLM0046 Parameter Code: 01002 ARSENIC, TOTAL (UG/L AS AS)



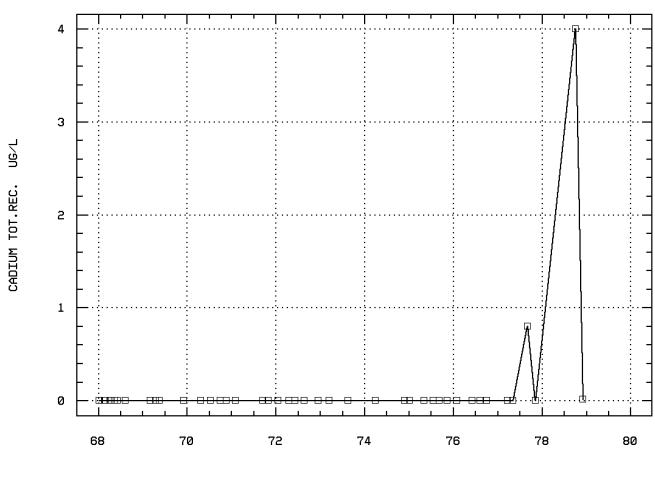
Sample Date (Years)

Station: COLM0046 Parameter Code: 01094 ZINC,TOTAL RECOVERABLE IN WATER AS ZN



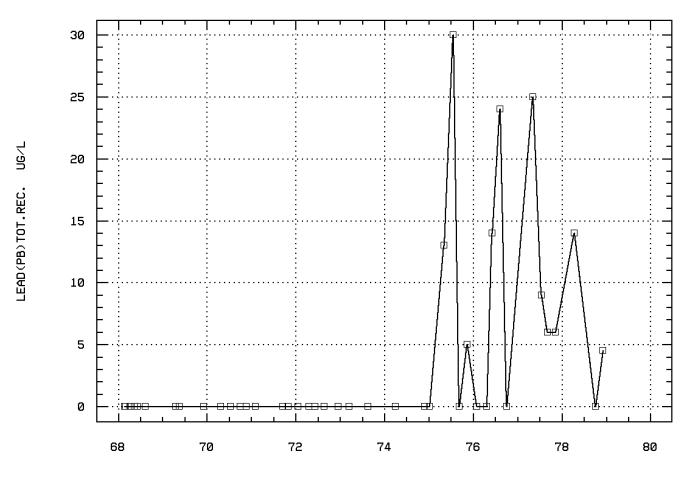
Sample Date (Years)

Station: COLM0046 Parameter Code: 01113 CADMIUM, TOTAL RECOVERABLE IN WATER AS C



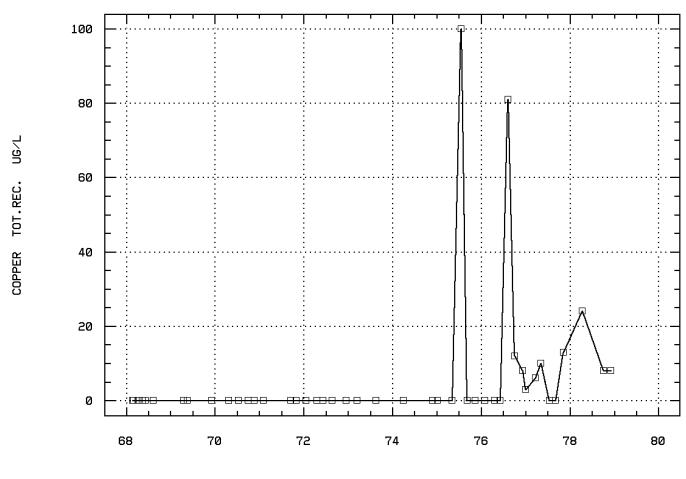
Sample Date (Years)

Station: COLM0046 Parameter Code: 01114 LEAD, TOTAL RECOVERABLE IN WATER AS PB



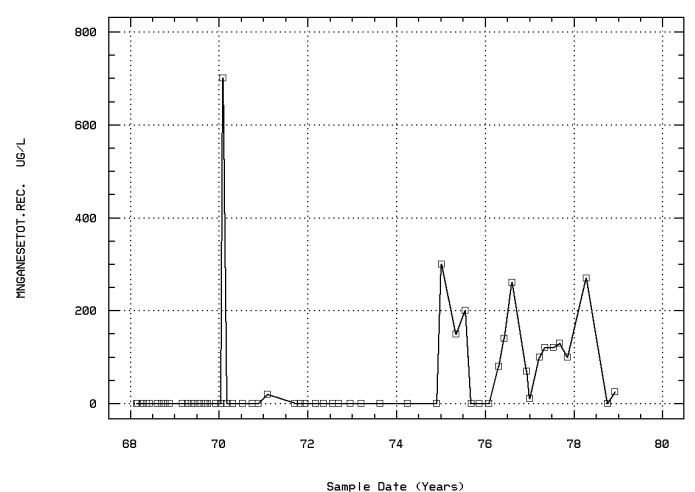
Sample Date (Years)

Station: COLM0046 Parameter Code: 01119 COPPER,TOTAL RECOVERABLE IN WATER AS CU



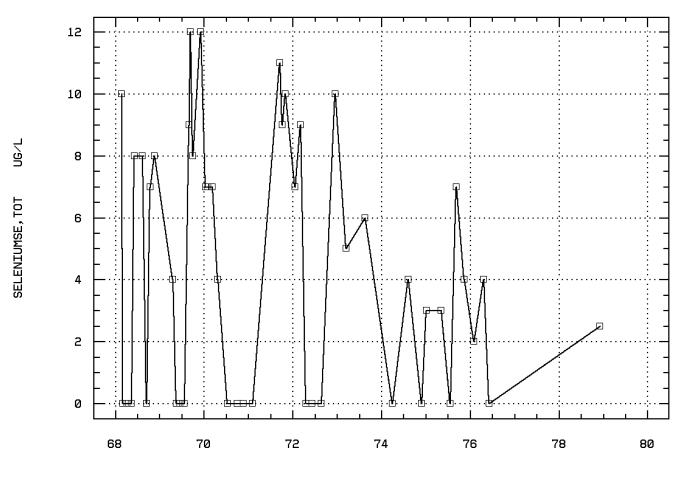
Sample Date (Years)

Station: COLM0046 Parameter Code: 01123 MANGANESE, TOTAL RECOVERABLE IN WATER AS



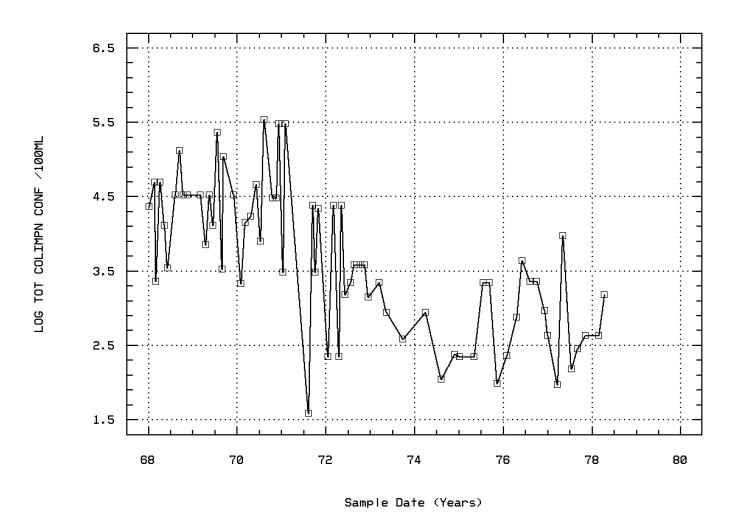
Jampie Daie (Teal 5

Station: COLM0046 Parameter Code: 01147 SELENIUM, TOTAL (UG/L AS SE)



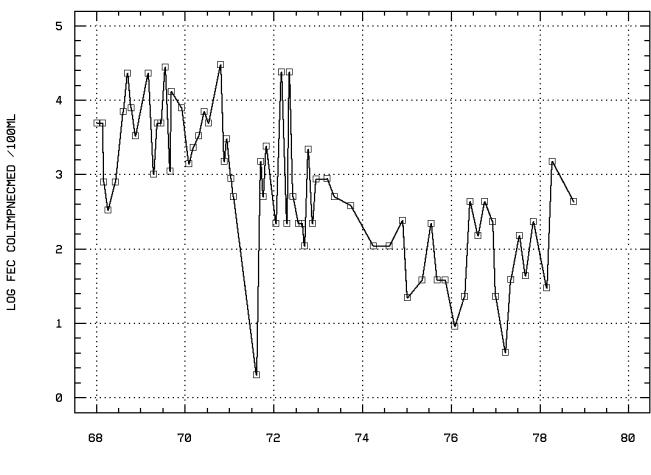
Sample Date (Years)

Station: COLM0046 Parameter Code: 31505 LOG COLIFORM, TOT, MPN, CONFIRMED TEST, 35C



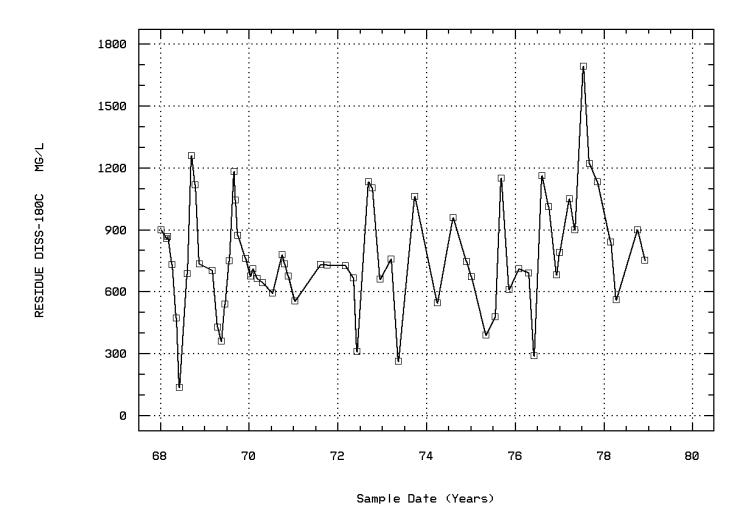
COLORADO RIVER NEAR FRUITA

Station: COLM0046 Parameter Code: 31615 LOG FECAL COLIFORM, MPN, EC MED, 44.5C (TU



Sample Date (Years)

Station: COLM0046 Parameter Code: 70300 RESIDUE, TOTAL FILTRABLE (DRIED AT 180C)



COLORADO RIVER NEAR FRUITA

Annual Analysis for 1968 - Station COLM0046

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	10	47.5	48.4	65.	32.	101.822	10.091	32.7	42.	57.	64.5
00095p	SPECIFIC CONDUCTANCÈ (UMHOS/CM @ 25C)	01/09/68-12/04/78	10	1136.	1051.5	1395.	400.	97588.944	312.392	434.7	801.75	1293.	1391.7

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1969 - Station COLM0046

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	9	62.	57.778	76.	36.	166.444	12.901	36.	46.	65.	76.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	01/09/68-12/04/78	9	1060.	959.889	1380.	579.	73386.111	270.899	579.	715.	1159.	1380.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1970 - Station COLM0046

Paramete	er	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	10	43.	47.1	74.	34.	200.1	14.146	34.	34.75	57.5	73.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/09/68-12/04/78	11	964.	782.455	1096.	10.	142095.873	376.956	64.	380.	1040.	1092.4

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1971 - Station COLM0046

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	7	43.	48.143	76.	32.	259.143	16.098	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/09/68-12/04/78	7	1101.	1080.286	1329.	849.	31693.238	178.026	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1972 - Station COLM0046

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	10	57.	53.1	68.	32.	153.433	12.387	32.	45.5	62.5	67.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/09/68-12/04/78	10	1100.	1130.7	1500.	450.	108380.011	329.211	492.	960.	1452.	1495.8

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1973 - Station COLM0046

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	3	52.	52.	67.	37.	225.	15.	**	**	**	**
00095p SPECIFIC CONDUCTANCÈ (UMHOS/CM @ 25C)	01/09/68-12/04/78	3	1102.	901.333	1242.	360.	224681.333	474.006	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1974 - Station COLM0046

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	3	46.	52.2	71.6	39.	294.52	17.162	**	**	**	**
00095p	SPECIFIC CONDUCTANCÈ (UMHOS/CM @ 25C)	01/09/68-12/04/78	3	1060.	1150.667	1521.	871.	111790.333	334.351	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1975 - Station COLM0046

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	5	50.	52.	73.	32.	302.5	17.393	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	01/09/68-12/04/78	5	891.	951.2	1550.	575.	136424.7	369.357	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1976 - Station COLM0046

Paramete	er e e e e e e e e e e e e e e e e e e	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	6	53.	49.833	64.	34.	149.767	12.238	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/09/68-12/04/78	6	1120.	1068.333	1380.	500.	107856.667	328.415	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1977 - Station COLM0046

Paramete	er	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	6	54.5	54.	76.	34.	302.8	17.401	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/09/68-12/04/78	6	1475.	1550.	2300.	1030.	200920.	448.241	**	**	**	**

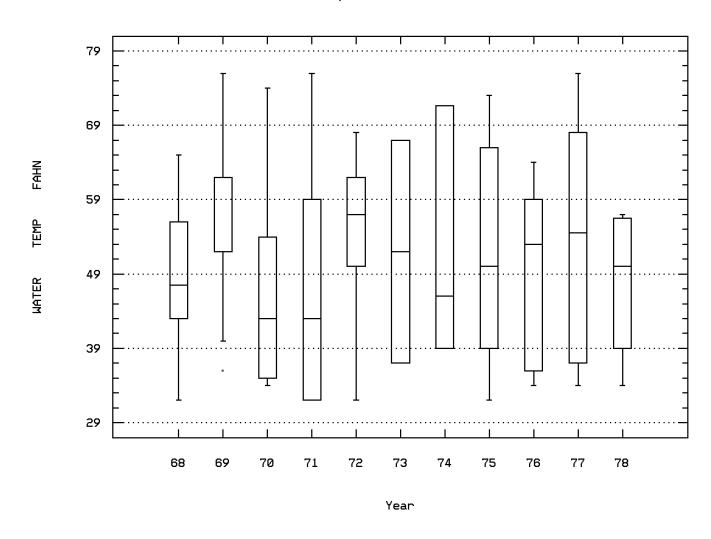
^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station COLM0046

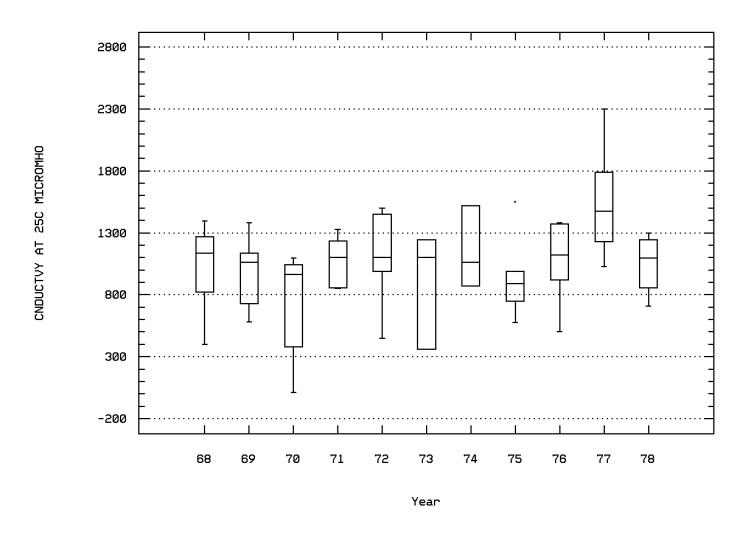
Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011p	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	4	50.	47.75	57.	34.	118.917	10.905	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	01/09/68-12/04/78	4	1095.	1050.	1300.	710.	66733.333	258.328	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: COLM0046 Parameter Code: 00011
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



Station: COLM0046 Parameter Code: 00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



Seasonal Analysis for Season #1: 7/15 to 10/19 - Station COLM0046

Paramete		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	24	64.5	64.483	76.	51.	56.963	7.547	54.5	58.	70.7	76.
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TÜRB UNIT)	02/20/68-12/04/78	21	128.	200.057	900.	7.2	48124.789	219.374	15.2	38.	335.	450.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/09/68-12/04/78	25	1270.	1220.36	1790.	280.	93372.823	305.57	792.	1084.	1415.	1532.6
00400	PH (STANDARD UNITS)	01/09/68-12/04/78	21	8.2	8.271	8.7	7.6	0.07	0.265	7.92	8.15	8.5	8.6
00400	CONVERTED PH (STANDARD UNITS)	01/09/68-12/04/78	21	8.2	8.186	8.7	7.6	0.078	0.279	7.92	8.15	8.5	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/09/68-12/04/78	21	0.006		0.025	0.002	0.	0.005	0.003	0.003	0.007	0.012
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/05/68-12/04/78	15	157.	462.2	2630.	12.	522537.029	722.867	38.4	80.	320.	1917.2
00610	NITROGEN, AMMONIA, TOTAL (MĜ/L AŚ N)	09/17/68-12/04/78	19	0.08	0.127	0.8	0.	0.037	0.192	0.	0.	0.16	0.3
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/20/68-12/04/78	17	0.018	0.032	0.144	0.	0.001	0.038	0.	0.008	0.057	0.086
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/17/68-12/04/78	20	0.995	1.085	4.	0.	0.727	0.853	0.065	0.625	1.35	1.87
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/20/68-12/04/78	20	517.	492.4	673.	282.	11951.726	109.324	297.7	414.	569.75	628.1
00910	CALCIUM (MG/L AS CACO3)	02/20/68-12/04/78	19	360.	339.579	458.	196.	6205.257	78.773	210.	260.	396.	450.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/20/68-12/04/78	19	37.	33.263	67.	0.	230.094	15.169	9.	21.	42.	45.
00929	SODIUM, TOTAL (MG/L AS NA)	02/20/68-12/04/78	20	113.5	113.25	170.	59.	907.461	30.124	63.4	98.5	138.75	152.9
00931	SODIUM ADSORPTION RATIO	02/20/68-12/04/78	19	2.1	2.163	2.9	1.5	0.168	0.41	1.6	1.8	2.5	2.7
00940	CHLORIDE,TOTAL IN WATER MG/L	02/20/68-12/04/78	20	82.5	83.25	133.	30.	639.145	25.281	42.6	66.75	102.75	117.9
00945	SULFATE, TOTAL (MG/L AS SO4)	09/17/68-12/04/78	18	477.	447.278	680.	198.	15568.565	124.774	200.7	379.	527.75	578.3
00980	IRON,TOTAL RECOVERABLE IN WATER AS FE UG/L	02/20/68-12/04/78	20	250.	1249.	11200.	0.	8170493.684	2858.408	0.	50.	760.	6835.
01022	BORON, TOTAL (UG/L AS B)	01/09/68-09/06/77	12	110.	95.	220.	0.	5118.182	71.541	0.	10.	147.5	202.
01094	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	02/20/68-12/04/78	18	0.	38.333	340.	0.	7497.059	86.586	0.	0.	30.	178.
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD UG/L	01/09/68-12/04/78	12	0.	0.4	4.	0.	1.338	1.157	0.	0.	0.	3.04
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB UG/L	02/20/68-12/04/78	12	0.	5	30.	0.	110.182	10.497	0.	0.	4.5	28.2
01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU UG/L	02/20/68-12/04/78	12	0.	16.75	100.	0.	1218.386	34.905	0.	0.	11.	94.3
01123	MANGANESE, TOTAL RECOVERABLE IN WATER AS MN UG/L	02/20/68-12/04/78	18	0.	32.778	260.	0.	6185.948	78.651	0.	0.	0.	206.
01147	SELENIUM, TOTAL (UG/L AS SE)	02/20/68-12/04/78	16	6.5	5.063	12.	0.	19.663	4.434	0.	0.	8.75	11.3
01503	ALPHA, DISSOLVED	03/04/69-11/09/77	14	16.5	16.857	40.	3.	107.209	10.354	3.5	8.	24.25	33.
01504	ALPHA, DISSOLVED, COUNTING ERROR	03/04/69-11/09/77	14	15.	15.5	20.	13.	3.654	1.912	13.	14.	16.25	19.
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/09/68-04/12/78	22		42800.364	345000.		6656740.052	88185.354	161.	2200.	33000.	200000.
31505	LOG COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 3150	01/09/68-04/12/78	22	3.549		5.538	1.58	1.075	1.037	2.163	3.342	4.519	5.287
31505	GM COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506	GEOMETRIC MEAN			5064.397								
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	01/09/68-10/02/78	22	430.	4147.864	27800.		8905447.457	7674.988	39.5	140.	5425.	20000.
31615	LOG FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	01/09/68-10/02/78	22	2.633		4.444	0.301	1.039	1.019	1.596	2.142	3.729	4.287
31615	GM FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	GEOMETRIC MEAN			608.814								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	04/16/69-09/06/77	14	0.	0.029	0.4	0.	0.011	0.107	0.	0.	0.	0.2
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/09/68-12/04/78	21	1010.	947.905	1258.	478.	50498.09	224.718	611.2	740.	1140.	1212.2

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/20 to 1/14 - Station COLM0046

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	17	36.	36.529	46.	32.	20.015	4.474	32.	32.	39.5	43.6
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/20/68-12/04/78	11	17.	59.345	285.	3.3	9375.943	96.829	4.74	14.	28.	272.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	01/09/68-12/04/78	17	1009.	1010.353	1233.	700.	21626.868	147.061	796.	904.5	1110.	1230.6
00400	PH (STANDARD UNITS)	01/09/68-12/04/78	16	8.3	8.169	8.8	7.4	0.214	0.463	7.4	7.8	8.55	8.8
00400	CONVERTED PH (STANDARD UNITS)	01/09/68-12/04/78	16	8.3	7.936	8.8	7.4	0.272	0.522	7.4	7.8	8.55	8.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/09/68-12/04/78	16	0.005	0.012	0.04	0.002	0.	0.013	0.002	0.003	0.016	0.04
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/05/68-12/04/78	10	48.	70.6	210.	20.	3501.822	59.176	20.7	29.25	93.25	202.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/17/68-12/04/78	12	0.085	0.154	0.45	0.	0.032	0.178	0.	0.	0.34	0.435
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/20/68-12/04/78	12	0.013	0.013	0.024	0.	0.	0.008	0.001	0.006	0.02	0.024
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/17/68-12/04/78	13	0.86	0.925	1.4	0.5	0.075	0.274	0.54	0.785	1.2	1.36
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/20/68-12/04/78	12	380.	372.417	480.	301.	2870.447	53.577	304.6	321.25	411.25	461.1
00910	CALCIUM (MG/L AS CACO3)	02/20/68-12/04/78	12	247.5	250.417	308.	193.	1277.174	35.738	195.7	227.	285.	303.8
00927	MAGNESIÙM, TOTAL (MG/Ĺ AS MG)	02/20/68-12/04/78	12	27.5	29.667	46.	17.	57.515	7.584	18.5	26.25	34.5	43.6
00929	SODIUM, TOTAL (MG/L AS NA)	02/20/68-12/04/78	13	100.	102.538	130.	65.	298.936	17.29	73.	91.5	118.	126.
00931	SODIUM ADSORPTION RATIO	02/20/68-12/04/78	12	2.4	2.3	2.6	1.3	0.12	0.346	1.54	2.225	2.5	2.57
00940	CHLORIDE.TOTAL IN WATER MG/L	02/20/68-12/04/78	12	96.	97.5	140.	72.	299.182	17.297	74.1	87.	104.75	131.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 10/20 to 1/14 - Station COLM0046

Paramete	r e e e e e e e e e e e e e e e e e e e	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	09/17/68-12/04/78	12	301.5	309.083	490.	240.	4662.083	68.279	241.5	259.25	327.5	451.3
00980	IRON, TOTAL RECOVERABLE IN WATER AS FE UG/L	02/20/68-12/04/78	12	250.	461.667	1700.	10.	297851.515	545.758	22.	85.	575.	1610.
01022	BORON, TOTAL (UG/L AS B)	01/09/68-09/06/77	10	30.	37.	90.	0.	1601.111	40.014	0.	0.	80.	89.
01094	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	02/20/68-12/04/78	11	0.	12.727	80.	0.	661.818	25.726	0.	0.	20.	72.
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD UG/L	01/09/68-12/04/78	10	0.	0.002	0.015	0.	0.	0.005	0.	0.	0.	0.014
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB UG/L	02/20/68-12/04/78	9	0.	1.722	6.	0.	6.819	2.611	0.	0.	4.75	6.
01119	COPPER, TOTAL RECOVERABLE IN WATER AS CU UG/L	02/20/68-12/04/78	11	0.	2.909	13.	0.	21.291	4.614	0.	0.	8.	12.
01123	MANGANESE, TOTAL RECOVERABLE IN WATER AS MN UG/L	02/20/68-12/04/78	13	0.	38.846	300.	0.	7167.308	84.66	0.	0.	47.5	220.
01147	SELENIUM, TOTAL (UG/L AS SE)	02/20/68-12/04/78	9	4.	5.5	12.	0.	20.875	4.569	0.	1.25	10.	12.
01503	ALPHA, DISSOLVED	03/04/69-11/09/77	11	14.	16.264	41.	0.9	142.125	11.922	0.92	11.	23.	38.8
01504	ALPHA, DISSOLVED, COUNTING ERROR	03/04/69-11/09/77	11	15.	14.727	18.	12.	4.018	2.005	12.2	13.	16.	17.8
31505	COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506)	01/09/68-04/12/78	16	3400.	30096.625	300000.	96. 5368	8322702.25	73268.839	182.8	430.	30000.	113100.
31505	LOG COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 3150	01/09/68-04/12/78	16	3.528	3.582	5.477	1.982	1.07	1.034	2.234	2.633	4.477	4.806
31505	GM COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506	GEOMETRIC MEAN	V =		3821.587								
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	01/09/68-10/02/78	16	870.	3483.938	30000.	22. 54	4789541.929	7401.996	22.7	222.5	3225.	14530.
31615	LOG FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	01/09/68-10/02/78	16	2.939	2.827	4.477	1.342	0.849	0.922	1.356	2.347	3.508	4.071
31615	GM FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	GEOMETRIC MEAN	V =		670.838								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	04/16/69-09/06/77	7	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	01/09/68-12/04/78	14	734.5	742.714	1130.	553.	19322.22	139.004	581.5	669.75	768.25	1015.
31615 38260	GM FECAL COLIFORM, MPN, ÉC MED, 44.5C (TUBE 31614) METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	GEOMETRIC MEAN 04/16/69-09/06/77	7	0.	670.838 0.	0.	0.	0.	0.	**	**	**	**

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 1/15 to 5/31 - Station COLM0046

Paramete	r	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	26	46.	46.	63.	32.	72.64	8.523	34.	39.75	52.	58.5
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/20/68-12/04/78	23	135.	208.574	900.	5.7	51997.226	228.029	13.5	60.	250.	640.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @, 25C)	01/09/68-12/04/78	26	1015.	961.808	1490.	10. 1	14157.202	337.872	510.5	765.75	1148.	1414.5
00400	PH (STANDARD UNITS)	01/09/68-12/04/78	20	8.25	8.245	8.7	7.3	0.14	0.375	7.72	8.	8.6	8.7
00400	CONVERTED PH (STANDARD UNITS)	01/09/68-12/04/78	20	8.247	8.065	8.7	7.3	0.175	0.418	7.72	8.	8.6	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/09/68-12/04/78	20	0.006	0.009	0.05	0.002	0.	0.011	0.002	0.003	0.01	0.019
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/05/68-12/04/78	14	184.5	260.643	717.	0.	46832.863	216.409	20.	97.25	357.25	683.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/17/68-12/04/78	18	0.06	0.233	1.2	0.	0.105	0.324	0.	0.	0.425	0.66
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/20/68-12/04/78	17	0.016	0.066	0.83	0.	0.039	0.197	0.	0.008	0.039	0.208
00620	NITRATE NITROGEN, TOTAL (MG/L AS Ń)	09/17/68-12/04/78	19	0.74	0.985	4.	0.	0.771	0.878	0.05	0.5	1.4	1.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/20/68-12/04/78	24	321.5	314.125	477.	144.	5970.027	77.266	209.	260.	365.	423.
00910	CALCIUM (MG/L AS CACO3)	02/20/68-12/04/78	22	214.5	207.955	295.	11.	3608.331	60.069	140.9	184.75	246.5	277.3
00927	MAGNESIÙM, TOTAL (MG/L AS MG)	02/20/68-12/04/78	22	26.	28.273	88.	14.	242.684	15.578	15.3	18.75	29.75	44.6
00929	SODIUM, TOTAL (MG/L AS NA)	02/20/68-12/04/78	23	96.	93.435	205.	22.	1502.711	38.765	38.4	71.	120.	132.
00931	SODIUM ADSORPTION RATIO	02/20/68-12/04/78	24	2.2	2.229	4.1	0.8	0.49	0.7	1.15	1.9	2.575	3.05
00940	CHLORIDE, TOTAL IN WATER MG/L	02/20/68-12/04/78	24	86.	78.708	150.	19.	1355.085	36.811	22.5	43.25	102.5	131.
00945	SULFATE, TOTAL (MG/L AS SO4)	09/17/68-12/04/78	18	262.5	253.944	440.	122.	6932.056	83.259	141.8	193.75	277.25	422.
00980	IRON, TOTAL RECOVERABLE IN WATER AS FE UG/L	02/20/68-12/04/78	22	210.	1044.545	11000.	50. 56	74606.926	2382.143	50.	100.	810.	3110.
01022	BORÓN, TOTAL (UG/L AS B)	01/09/68-09/06/77	17	80.	71.176	130.	0.	2161.029	46.487	0.	20.	110.	122.
01094	ZINC,TOTAL RECOVERABLE IN WATER AS ZN UG/L	02/20/68-12/04/78	21	0.	51.905	400.	0.	9896.19	99.48	0.	0.	70.	196.
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD UG/L	01/09/68-12/04/78	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB UG/L	02/20/68-12/04/78	18	0.	2.944	25.	0.	49.114	7.008	0.	0.	0.25	15.1
01119	COPPER, TOTAL RECOVERABLE IN WATER AS CU UG/L	02/20/68-12/04/78	18	0.	2.222	24.	0.	36.654	6.054	0.	0.	0.	11.4
01123	MANGANESE, TOTAL RECOVERABLE IN WATER AS MN UG/L	02/20/68-12/04/78	22	0.	65.455	700.	0.	24873.593	157.714	0.	0.	85.	234.
01147	SELENIUM, TOTAL (UG/L AS SE)	02/20/68-12/04/78	19	4.	3.632	10.	0.	11.801	3.435	0.	0.	7.	9.
01503	ALPHA, DISSOLVED	03/04/69-11/09/77	10	13.5	13.3	25.	2.	58.456	7.646	2.3	5.75	20.	24.8
01504	ALPHA, DISSOLVED, COUNTING ERROR	03/04/69-11/09/77	10	13.	13.3	17.	11.	4.011	2.003	11.	11.75	15.	16.8
31505	COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506)	01/09/68-04/12/78	25	2300.	23384.92	300000.	93. 35532	94619.327	59609.518	220.	590.	24000.	49000.
31505	LOG COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 3150	01/09/68-04/12/78	25	3.362	3.557	5.477	1.968	0.898	0.948	2.342	2.754	4.38	4.69
31505	GM COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506	GEOMETRIC MEAN	V =		3605.677								
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	01/09/68-10/02/78	24	645.	3916.375	24000.		92128.505	7758.359	16.	56.75	3050.	23500.
31615	LOG FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	01/09/68-10/02/78	24	2.798	2.698	4.38	0.602	1.132	1.064	1.158	1.704	3.479	4.371

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 1/15 to 5/31 - Station COLM0046

Paramete	г	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31615	GM FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	GEOMETRIC MEAN	[=		499.067								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	04/16/69-09/06/77	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	01/09/68-12/04/78	23	690.	660.391	1050.	261.	35773.34	189.138	370.6	544.	757.	886.

^{** -} Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #4: 6/01 to 7/14 - Station COLM0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum		Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	01/09/68-12/04/78	6	61.	60.833	68.	54.	20.967	4.579	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TÚRB UNIT)	02/20/68-12/04/78	5	300.	444.2	1250.	85.	223538.2	472.798	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/09/68-12/04/78	6	475.	793.333	2300.	380.	560706.667	748.803	**	**	**	**
00400	PH (STANDARD UNITS)	01/09/68-12/04/78	6	8.15	8.233	8.7	7.8	0.103	0.32	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/09/68-12/04/78	6	8.147	8.143	8.7	7.8	0.113	0.335	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/09/68-12/04/78	6	0.007	0.007	0.016	0.002	0.	0.005	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/05/68-12/04/78	3	240.	239.	287.	190.	2353.	48.508	**	**	**	**
00610	NITROGÉN, AMMONIA, TOTAL (MĞ/L AŚ N)	09/17/68-12/04/78	5	0.3	0.366	1.1	0.	0.19	0.436	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/20/68-12/04/78	5	0.05	0.042	0.064	0.021	0.	0.019	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/17/68-12/04/78	5	1.	2.128	4.5	0.5	3.654	1.912	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/20/68-12/04/78	5	176.	310.8	770.	159.	68454.7	261.638	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	02/20/68-12/04/78	5	127.	209.2	500.	119.	26929.2	164.101	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/20/68-12/04/78	5	12.	24.6	65.	10.	554.8	23.554	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	02/20/68-12/04/78	5	33.	59.8	160.	13.	3461.7	58.836	**	**	**	**
00931	SODIUM ADSORPTION RATIO	02/20/68-12/04/78	5	1.1	1.3	2.5	0.3	0.665	0.815	**	**	**	**
00940	CHLORIDE.TOTAL IN WATER MG/L	02/20/68-12/04/78	5	29.	43.8	118.	3.	1918.7	43.803	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/17/68-12/04/78	4	170.	297.5	740.	110.	90225.	300.375	**	**	**	**
00980	IRON, TOTAL RECOVERABLE IN WATER AS FE UG/L	02/20/68-12/04/78	5	1900.	1650.	3600.	50.	2102500.	1450.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	01/09/68-09/06/77	5	100.	78.	190.	0.	6420.	80.125	**	**	**	**
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN UG/L	02/20/68-12/04/78	5	0.	66.	280.	Ö.	14780.	121.573	**	**	**	**
01113	CADMIUM.TOTAL RECOVERABLE IN WATER AS CD UG/L	01/09/68-12/04/78	4	Õ.	0.25	1	0	0.25	0.5	**	**	**	**
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB UG/L	02/20/68-12/04/78	4	4.5	5.75	14.	0	48.25	6.946	**	**	**	**
01119	COPPER.TOTAL RECOVERABLE IN WATER AS CU UG/L	02/20/68-12/04/78	4	0.	0.	0	Ö.	0.	0.510	**	**	**	**
01123	MANGANESE, TOTAL RECOVERABLE IN WATER AS MN UG/L	02/20/68-12/04/78	4	60.	65.	140.	0	5700.	75.498	**	**	**	**
01147	SELENIUM. TOTAL (UG/L AS SE)	02/20/68-12/04/78	4	0	2	8.	Õ.	16.	4	**	**	**	**
01503	ALPHA, DISSOLVED	03/04/69-11/09/77	i	25.	25.	25.	25.	0	Ö.	**	**	**	**
01504	ALPHA, DISSOLVED, COUNTING ERROR	03/04/69-11/09/77	1	17.	17.	17.	17.	0	0	**	**	**	**
31505	COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 31506)	01/09/68-04/12/78	6		11400.	46000.		7581000.	17537.987	**	**	**	**
31505	LOG COLIFORM, TOT, MPN, CONFIRMED TEST, 35C (TUBE 3150	01/09/68-04/12/78	6	3.586		4.663	2.176		0.847	**	**	**	**
31505	GM COLIFORM TOT MPN. CONFIRMED TEST 35C (TUBE 31506	GEOMETRIC MEAN	=	3.500	3548.367	1.005	2.170	0.710	0.017				
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	01/09/68-10/02/78	6	645.	2295.	7000.	150.	8497870.	2915.111	**	**	**	**
31615	LOG FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	01/09/68-10/02/78	6	2.798	2.99	3.845	2.176		0.649	**	**	**	**
31615	GM FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	GEOMETRIC MEAN		2.770	977.782	3.015	2.170	0.121	3.017				
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	04/16/69-09/06/77	2	0.	0.	0.	0	0.	0	**	**	**	**
70300													**

EPA Water Quality Criteria Analysis for Entire COLM Study Area

					Б 1			5 /15 10/10			10/20 1/14			1/15 5/01			6/01 5/14	
Paramet	ar.	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	Obs	Exceed	Prop.	Obs	-10/20-1/14- Exceed	Prop.	Obs	1/15-5/31- Exceed	Prop.	Obs	6/01-7/14- Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	60	40	0.67	21	14	0.67	11	2	0.18	23	19	0.83	5	5	1.00
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	189	3	0.02	37	1	0.03	77	$\overline{2}$	0.03	61	0	0.00	14	0	0.00
00400	PH	Fresh Chronic	9.	289	2	0.01	76	1	0.01	97	0	0.00	85	0	0.00	31	1	0.03
		Other-Lo Lim.	6.5	289	1	0.00	76	1	0.01	97	0	0.00	85	0	0.00	31	0	0.00
00403	PH, LAB	Fresh Chronic	9.	84	1	0.01	31	0	0.00	15	0	0.00	30	0	0.00	8	1	0.13
00613	NUTRITE NUTROCEN DIGGOLVED ACM	Other-Lo Lim.	6.5	84	0	0.00	31	0	0.00	15	0	0.00	30	0	0.00	8	0	0.00
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	9 51	0	0.00 0.00	7 17	0	0.00	12	0	0.00	2 17	0	0.00	5	0	0.00
00615 00620	NITRITE NITROGEN, TOTAL AS N NITRATE NITROGEN, TOTAL AS N	Drinking Water Drinking Water	1. 10.	51 57	0	0.00	20	0	0.00	12 13	0	0.00	17	0	0.00	5	0	0.00
00620	NITRATE NITROGEN, TOTAL AS N NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	55	0	0.00	20	U	0.00	55	0	0.00	19	U	0.00	3	U	0.00
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	113	7	0.06	33	0	0.00	21	í	0.05	50	6	0.12	9	0	0.00
00723	CYANIDE, DISSOLVED STD METHOD	Fresh Acute	22.	41	Ó	0.00	12	ŏ	0.00	8	Ô	0.00	17	ŏ	0.00	4	ŏ	0.00
	,	Drinking Water	200.	41	0	0.00	12	0	0.00	8	0	0.00	17	0	0.00	4	0	0.00
00940	CHLORIDE, TOTAL IN WATER	Fresh Acute	860.	218	0	0.00	71	0	0.00	44	0	0.00	83	0	0.00	20	0	0.00
		Drinking Water	250.	218	5	0.02	71	0	0.00	44	0	0.00	83	4	0.05	20	1	0.05
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	210	181	0.86	69	60	0.87	45	42	0.93	77	65	0.84	19	14	0.74
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	156	0	0.00	51	0	0.00	31	0	0.00	59	0	0.00	15	0	0.00
00951 01000	FLUORIDE, TOTAL AS F ARSENIC, DISSOLVED	Drinking Water Fresh Acute	4. 360.	42 15	0	0.00 0.00	11 8	0	$0.00 \\ 0.00$	10	0	0.00	17	0	0.00	4	0	0.00
01000	ARSENIC, DISSOLVED	Drinking Water	50. 50.	15	0	0.00	8	0	0.00				7	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	42	0	0.00	12	0	0.00	8	0	0.00	19	0	0.00	3	0	0.00
01002	ARSENIC, TOTAL	Drinking Water	50.	42	0	0.00	12	0	0.00	8	ő	0.00	19	0	0.00	3	0	0.00
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	15	ŏ	0.00	8	ŏ	0.00		· ·	0.00	7	ŏ	0.00	-	Ü	0.00
	······································	Drinking Water	5.	15	Õ	0.00	8	Ö	0.00				7	Õ	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	14	0	0.00	7	0	0.00				7	0	0.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	33	0	0.00	9	0	0.00	6	0	0.00	15	0	0.00	3	0	0.00
	CAND OF CAND C MODELY	Drinking Water	100.	33	0	0.00	9	0	0.00	6	0	0.00	15	0	0.00	3	0	0.00
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00				-		0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	14 14	0	0.00 0.00	7 7	0	0.00				7	0	0.00			
01049	LEAD, DISSOLVED	Drinking Water Fresh Acute	1300. 82.	15	0	0.00	8	0	0.00				7	0	0.00			
01049	LEAD, DISSOLVED	Drinking Water	15.	15	0	0.00	8	0	0.00				7	0	0.00			
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI	Fresh Acute	1400.	1	ő	0.00	O	Ü	0.00	1	0	0.00	,	Ü	0.00			
0107.	THORIDE, TO THE REGOVERN BEEN WITTERENDING	Drinking Water	100.	i	ĭ	1.00				î	í	1.00						
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG	Fresh Acute	4.1	18	0	0.00	5	0	0.00	4	0	0.00	7	0	0.00	2 2	0	0.00
		Drinking Water	100.	18	0	0.00	5	0	0.00	4	0	0.00	7	0	0.00	2	0	0.00
01090	ZINC, DISSOLVED	Fresh Acute	120.	15	0	0.00	8	0	0.00				7	0	0.00			
01004	TRUC TOTAL DECOMEDANCE DIMENSIA TO	Drinking Water	5000.	15	0	0.00	8	0	0.00			0.00	7	0	0.00	_		0.20
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN	Fresh Acute	120. 5000.	55 55	6	0.11 0.00	18 18	2	0.11 0.00	11 11	0	$0.00 \\ 0.00$	21 21	3	0.14 0.00	5 5	0	0.20 0.00
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD	Drinking Water Fresh Acute	3.9	43	1	0.00	12	1	0.00	10	0	0.00	17	0	0.00	4	0	0.00
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD	Drinking Water	5.	43	0	0.02		0	0.00	10	0	0.00	17	0	0.00	4	0	0.00
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB	Fresh Acute	82.	43	ŏ	0.00	12 12	ŏ	0.00	9	ŏ	0.00	18	ŏ	0.00	4	ŏ	0.00
	,	Drinking Water	15.	43	3	0.07	12	2	0.17	9	0	0.00	18	1	0.06	4	0	0.00
01118	CHROMIUM TOTAL RECOVERABLE IN WATER AS C	Drinking Water	100.	7	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00
01119	COPPER, TOTAL RECOVERABLE IN WATER AS CU	Fresh Acute	18.	45	3	0.07	12	2	0.17	11	0	0.00	18	1	0.06	4	0	0.00
		Drinking Water	1300.	45	0	0.00	12	0	0.00	11	0	0.00	18	0	0.00	4	0	0.00
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	51	0	0.00	26	0	0.00	6	0	0.00	10	0	0.00	9	0	0.00
01147	SELENIUM, TOTAL	Drinking Water	50. 20.	51 55	0	0.00 0.00	26 23	0	0.00	6	0	$0.00 \\ 0.00$	10 19	0	0.00	4	0	0.00
01147	SELENIUM, TOTAL	Fresh Acute Drinking Water	20. 50.	55 55	0	0.00	23	0	0.00	9	0	0.00	19	0	0.00	4	0	0.00
22703	URANIUM. NATURAL DISSOLVED	Drinking Water	20.	33	0	0.00	23	0	0.00	9	U	0.00	19	U	0.00	4	U	0.00
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	14	5	0.36	7	0	0.00				7	5	0.71			
31505	COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	69	49	0.71	22	18	0.82	16	10	0.63	25	16	0.64	6	5	0.83
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	67 &	50	0.75	22 22	16	0.73	16	13	0.81	23	16	0.70	6	5	0.83
38932	CHLORPYRIFOS, TOTAL RECOVERABLE	Fresh Acute	0.083	5	0	0.00	1	0	0.00							4	0	0.00
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	4	0	0.00	1	0	0.00				_	_		3	0	0.00
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	14	0	0.00	7	0	0.00				7	0	0.00			
71000	MEDGLIDY TOTAL	Drinking Water	2.	14	0	0.00	7	0	0.00				7	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute Drinking Water	2.4	1	0	0.00 0.00	1	0	$0.00 \\ 0.00$									
		Dilliking water	4.	1	U	0.00	1	U	0.00									

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire COLM Study Area

				Total	Exceed	Prop.		-7/15-10/19			-10/20-1/14			1/15-5/31-			-6/01-7/14	
Paramet	er	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
82586	ALDICARB SULFOXIDE, WATER, TOTAL RECOVER	Drinking Water	4.	5	0	$0.0\bar{0}$	1	0	0.00			-			-	4	0	0.00
82587	ALDICARB SULFONE, WHOLE WATER, TOTAL REC	Drinking Water	2.	5	0	0.00	1	0	0.00							4	0	0.00
82613	OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	Drinking Water	200.	5	0	0.00	1	0	0.00							4	0	0.00
82615	CARBOFÚRAN, WHOLE WATER, TOTAL RECOVERAB	Drinking Water	40.	5	0	0.00	1	0	0.00							4	0	0.00
82619	ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	Drinking Water	3.	5	0	0.00	1	0	0.00							4	0	0.00

[&]amp; - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Servicewide Inventory and Monitoring Program Level I Water Quality Parameter Inventory Data Evaluation and Analysis: Missing Level I Groups

No STORET Data	Within the COLM	Study Area	Exist for	These Gr	oups:
Chlorophyll*					

^{*}Not A Priority Parameter

NPS Servicewide Inventory and Monitoring Program Level I Water Quality Parameter Inventory Data Evaluation and Analysis: Present Level I Groups

STORET Data Within the COLM Study Area Exist for These Groups:

		Total	01/01/85 to	01/01/75 to	Before	Total
Alkalinit		Obs.	03/10/97	12/31/84	01/01/75	Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	78	0	66	12	10
00440	BICARBONATE ION (MG/L AS HCO3)	69	0	57	12	9
00445	CARBONATE ION (MG/L AS CO3)	67	0	57	10	9
		214	0	180	34	28 (10)!
		Total	01/01/85 to	01/01/75 to	Before	Total
pН		Obs.	03/10/97	12/31/84	01/01/75	Stations
00400	PH (STANDARD UNITS)	289	93	140	56	33
00403	PH, LAB (STANDARD UNITS)	84	84	0	0	12
		373	177	140	56	45 (33)!
		Total	01/01/85 to	01/01/75 to	Before	Total
Conducti	vity	Obs.	03/10/97	12/31/84	01/01/75	Stations
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	387	108	214	65	33
		387	108	214	65	33 (33)
		Total	01/01/85 to	01/01/75 to	Before	Total
Dissolved	d Oxygen	Obs.	03/10/97	12/31/84	01/01/75	Stations
00300	OXYGEN, DISSOLVED (MG/L)	189	45	128	16	21
		189	45	128	16	21 (21)
		Total	01/01/85 to	01/01/75 to	Before	Total
Water Te	mperature	Obs.	03/10/97	12/31/84	01/01/75	Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	333	109	198	26	32
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	73	0	21	52	1
		406	109	219	78	33 (33)
		Total	01/01/85 to	01/01/75 to	Before	Total
Flow		Obs.	03/10/97	12/31/84	01/01/75	Stations
00060	FLOW, STREAM, MEAN DAILY CFS	12	0	1	11	3
00061	FLOW, STREAM, INSTANTANEOUS CFS	158	95	61	2	15
	,	170	95	62	13	18 (15)!
		Total	01/01/85 to	01/01/75 to	Before	Total
Clarity/T	urbidity	Obs.	03/10/97	12/31/84	01/01/75	Stations
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	60	0	21	39	1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	42	0	21	21	1
	, ,	102	0	42	60	2 (1)!

Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Nitrate/N	litrogen	Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	55	03/10/7/	55	0	6
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	55	0	55	0	6
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	14	14	0	0	7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	109	0	74	35	7
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	57	0	21	36	1
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	55	0	55	0	6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	55	0	55	ő	6
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	113	37	64	12	16
00031		513	51	379	83	55 (23)!
		Total	01/01/85 to	01/01/75 to	Before	Total
Phosphat	te/Phosphorus	Obs.	03/10/97	12/31/84	01/01/75	Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	32	0	0	32	1
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	70	0	58	12	9
00665	PHOSPHORUS, TOTAL (MG/L AS P)	72	0	69	3	7
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10	0	10	0	3
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	84	14	58	12	14
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	55	0	55	0	6
		323	14	250	59	40 (21)!
		Total	01/01/85 to	01/01/75 to	Before	Total
Sulfates/	Total Dissolved Solids/Hardness	Obs.	03/10/97	12/31/84	01/01/75	Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	137	0	85	52	10
00945	SULFATE, TOTAL (MG/L AS SO4)	210	82	84	44	20
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	96	33	21	42	10
		443	115	190	138	40 (20)!
		Total	01/01/85 to	01/01/75 to	Before	Total
Bacteria		Obs.	03/10/97	12/31/84	01/01/75	Stations
31505	COLIFORM, TOT, MPN, CONFIRMED TEST, 35C(TUBE 31506)	69	0	19	50	1
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	68	0	20	48	1
		137	0	39	98	2 (1)!

Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Toxic Ele	ements	Total Obs.	01/01/85 to 03/10/97	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01000	ARSENIC, DISSOLVED (UG/L AS AS)	15	14	0	1	8
01000	ARSENIC, TOTAL (UG/L AS AS)	42	0	17	25	1
01002	CADMIUM, DISSOLVED (UG/L AS CD)	15	14	0	1	8
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	43	0	16	27	1
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	14	14	0	0	7
01030	CHROMIUM, HEXAVALENT (UG/L AS CR)	33	0	8	25	2.
01034	CHROMIUM, TOTAL (UG/L AS CR)	1	0	0	1	1
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7	0	7	0	1
01040	COPPER, DISSOLVED (UG/L AS CU)	14	14	0	0	7
01119	COPPER, TOTAL RECOVERABLE IN WATER AS CU (UG/L)	45	0	20	25	1
01049	LEAD, DISSOLVED (UG/L AS PB)	15	14	0	1	8
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	43	0	18	25	1
71890	MERCURY, DISSOLVED (UG/L AS HG)	14	14	0	0	7
71900	MERCURY, TOTAL (UG/L AS HG)	1	0	0	1	1
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	1	0	1	0	1
01145	SELENIUM, DISSOLVED (UG/L AS SE)	51	51	0	0	12
01147	SELENIUM, TOTAL (UG/L AS SE)	55	7	9	39	6
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	18	0	8	10	1
01090	ZINC, DISSOLVED (UG/L AS ZN)	15	14	0	1	8
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	55	0	18	37	1
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	41	0	16	25	1
		538	156	138	244	84 (15)!

Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

NPS Servicewide Inventory and Monitoring Program Level I Water Quality Parameter Inventory Data Evaluation and Analysis:

Park Summary: Level I Group Currentness and Distribution

	Total	Obs.	% Obs.	Stations Measuring	% of Total Stations Measuring	Obs. Per Station Measuring	Period of Record	Observations Per Year of
Parameter Group	Obs.	Since 1985	Since 1985	This Group	This Group	This Group	For This Group	Period of Record
Alkalinity	214	0	0.0	10	30.3	21.4	08/07/73-08/21/80	30.4
pH	373	177	47.5	33	100.0	11.3	01/09/68-03/10/97	12.8
Conductivity	387	108	27.9	33	100.0	11.7	01/09/68-03/10/97	13.3
Dissolved Oxygen	189	45	23.8	21	63.6	9.0	03/15/73-03/12/96	8.2
Water Temperature	406	109	26.8	33	100.0	12.3	01/09/68-03/10/97	13.9
Flow	170	95	55.9	15	45.5	11.3	10/15/70-03/10/97	6.4
Clarity/Turbidity	102	0	0.0	1	3.0	102.0	02/20/68-12/04/78	9.5
Nitrate/Nitrogen	513	51	9.9	23	69.7	22.3	09/17/68-09/27/95	19.0
Phosphate/Phosphorus	323	14	4.3	21	63.6	15.4	09/17/68-08/30/91	14.1
Chlorophyll	0	0	0.0	0	0.0	0.0	No Data For Group	0.0
Sulfates/Total Dissolved Solids/Hardness	443	115	26.0	20	60.6	22.2	01/09/68-02/05/97	15.2
Bacteria	137	0	0.0	1	3.0	137.0	01/09/68-10/02/78	12.8
Toxic Elements	538	156	29.0	15	45.5	35.9	01/09/68-09/19/96	18.7

Water Quality Observations Outside STORET Edit Criteria for COLM

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
COLM0007	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	761109	1800	21.0000000	112WRD	390415108345600	
COLM0020	00945	SULFATE, TOTAL (MG/L AS SO4)	910321	0900	2800.0000000	112WRD	390613108380101	
COLM0021	00945	SULFATE, TOTAL (MG/L AS SO4)	950612	1535	3500.0000000	112WRD	390615108385101	
COLM0023	00405	CARBON DIOXIDE (MG/L AS CO2)	770816	1130	218.0000000	112WRD	390637108400601	
COLM0025	00945	SULFATE, TOTAL (MG/L AS SO4)	910321	0800	3100.0000000	112WRD	390645108390101	
COLM0025	70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), MG/L	910321	0800	4590.0000000	112WRD	390645108390101	
COLM0027	00945	SULFATE, TOTAL (MG/L AS SO4)	910321	0740	2600.0000000	112WRD	390700108393101	
COLM0039	00945	SULFATE, TOTAL (MG/L AS SO4)	790315	1100	2600.0000000	112WRD	09152900	
COLM0039	00945	SULFATE, TOTAL (MG/L AS SO4)	910320	1310	2800.0000000	112WRD	09152900	
COLM0046	00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	690618	1600	1250.0000000	21COL001	000049	

APPENDICES

Appendix A

Computer Files Transmitted With

Park Baseline Water Quality Data Inventory and Analysis

Computer disk(s) accompanying this report include up to seven (depending on the presence or absence of certain data elements) compressed (ZIP) files containing digital copies of nearly all the tables, figures, and other materials used to produce this report. To decompress these files, you must use the commonly available shareware program PKUNZIP. The command to type at the DOS prompt is:

PKUNZIP -E COMPRESS.ZIP FILENAME.EXT

where COMPRESS.ZIP is the name of one of the seven compressed (ZIP) files listed below and FILENAME.EXT is the name of the file you wish to extract. If you want to decompress all of the files in COMPRESS.ZIP, simply omit the FILENAME.EXT. To obtain a listing of all the files compressed into a particular ZIP file, type the following:

PKUNZIP -V COMPRESS.ZIP | MORE

where COMPRESS.ZIP is the name of one of the seven compressed ZIP files listed below. If a ZIP file spans multiple disks, use the last disk of the series (span) when obtaining a listing of all the files compressed into a particular ZIP file. Once you see the file you wish to obtain, substitute this file name for FILENAME.EXT in the first command line above to extract and decompress this particular file.

Included on one of the disk(s) accompanying this report is a program named PRINTZIP. This program will decompress ZIP files which don't span multiple disks and print certain files to a Hewlett-Packard (or compatible) Laser Printer. To use PRINTZIP, however, you must still have a copy of PKUNZIP in a directory listed in your path or in the same directory as the PRINTZIP program. PRINTZIP provides an easy, menudriven interface for using PKUNZIP to decompress files and then send them to the printer. PRINTZIP allows you to send individual files, groups of files, or all files to the printer. PRINTZIP will not work with ZIP files that span multiple disks.

The following compressed (ZIP) files are included on the disk(s) accompanying this report:

(1) <u>COLMTABS.ZIP</u>

This compressed file contains all the tables presented in the report. The files compressed into this file include:

- (a) COLMSITE.DOC Descriptive listing of select fields from the industrial facilities discharges, drinking water intakes, and EPA-USGS stream gages databases.
- (b) COLMAGNC.DOC Contacts for agencies whose data were retrieved within the study area.
- (c) COLMAGNQ.DOC Number of stations, observations, and parameters retrieved by agency code within the study area and park.

(d) COLMOV0.DOC - Overview of park and retrieved data.

(e) COLMOV1.DOC - Station period of record table.

(f) COLMOV2.DOC - Parameter period of record table.

(g) COLMOV3.DOC - Station/parameter period of record table.

(h) COLMINV.DOC - Station by station descriptive statistics over the entire period of record and comparison against EPA Water Quality Criteria for each station.

(i) COLMSEAN.DOC - Seasonal and annual water quality descriptive statistics at stations with water quality data meeting the default seasonal and annual criteria.

(j) COLMEPAS.DOC - EPA Water Quality Criteria comparison for data at all stations combined within the study area.

(k) COLMIDEA.DOC - Comparison of downloaded STORET data with NPS Servicewide Inventory and Monitoring Program "Level I" water quality parameters.

(l) COLMBAD.DOC - Water quality observation values that were outside the range of one of 190 STORET edit criteria and were either discarded or retained.

All these compressed document files are in ASCII format and contain printer codes appropriate to Hewlett-Packard (or compatible) Laser Printers. While at the DOS prompt, any of these document files may be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the PRINT command. For example, if the document COLMOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\COLMOV1.DOC. This will print the file to your local or networked Hewlett-Packard (or compatible) Laser Printer attached to parallel port one (LPT1:). Alternatively, you can use the PRINTZIP program to decompress and print any of these files provided the ZIP file doesn't span multiple disks. These ASCII files can also be imported into word-processed documents, but the printer codes will then have to be removed.

(2) <u>COLMFIGS.ZIP</u>

This compressed file contains graphics files for all the statistical figures (time series plots; annual box and whiskers plots; seasonal box and whiskers plots) in the report in two different formats: Computer Graphic Metafile (CGM) and Hewlett-Packard Printer Control Language (PCL). The files are named with the last three digits of the Station Name followed by the five digit STORET code. The file name extension begins with either a 1 (time series), 2 (annual), or 3 (seasonal) and then either GM for CGM or CL for PCL. For example, 00100300.2GM would denote the file contains an annual box and whiskers plot in CGM format for parameter 00300 (dissolved oxygen) at station COLM0001. While at the DOS prompt, any PCL file can be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the COPY command. For example, if the graphic 00100300.2CL (an annual box and whiskers plot of parameter 00300, dissolved oxygen, at station COLM0001) is in the subirectory C:\WATER, you would type: COPY C:\WATER\00100300.2CL LPT1: /B. This will print the file to your local or networked Hewlett-Packard (or compatible) Laser Printer attached to parallel port one (LPT1:). The /B is necessary because the PCL file is in a binary format. Alternatively, you can use the PRINTZIP program to decompress and print any of the PCL files provided the ZIP file doesn't span multiple disks. The CGM files can be imported and/or edited in most graphics packages, including WordPerfect.

(3) <u>COLMPARM.ZIP</u>

This file compresses COLMPARM.DBF which contains all the actual values (raw data) of all the water quality data downloaded from STORET and summarized in the report. The detailed database structure for this file is contained in Appendix B.

(4) COLMSITE.ZIP

This compressed file contains up to five geo-referenced, DBASE III+ compatible site (point location) files documenting the location in the study area of water quality monitoring stations, industrial facilities discharges, drinking water intakes, water gages, and water impoundments. These files include:

(a) COLMWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

(b) COLMIFD.DBF - All municipal and industrial facility discharges within the project's study area downloaded from the IFD database.

(c) COLMDRIN.DBF - All drinking water intakes within the project's study area downloaded from the DRINKS database.

(d) COLMGAGE.DBF - All water gages within the project's study area downloaded from the GAGES database.

(e) COLMDAMS.DBF - All water impoundments within the project's study area downloaded from the DAMS database.

The absence of any of these files indicates that none of the particular sites were found within the study area. Detailed database structures for each of these files are contained in Appendix B.

(5) COLMMISC.ZIP

This compressed file contains a variety of graphic and document files that are contained in the report. They are grouped into this miscellaneous compressed (ZIP) file because they don't fit neatly into any of the other compressed files. The files contained in this compressed file include:

(a) COLMEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

(b) COLMTOC.DOC - WordPerfect Ver. 5.1 copy of the report's Table of Contents.

(c) INTRO.DOC - WordPerfect Ver. 5.1 copy of all the text in the report from the Introduction through the Interpretive Guide to Water Quality Results.

(d) APPENDIX.DOC - WordPerfect Ver. 5.1 copy of all the Appendices in the report.

(e) COLMREGI - PCL and CLP (Windows Clipboard) copies of map displaying the regional location of the park and study area.

(f) COLMWQ

- PCL and CLP (Windows Clipboard) copies of park maps displaying water quality station locations within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (COLMWQA, COLMWQB, COLMWQC, etc.) and the index map name will end with an ampersand (&).

(g) COLMIDG

PCL and CLP (Windows Clipboard) copies of park maps displaying locations of industrial facilities discharges, drinking water intakes, and stream gages within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (COLMIDGA, COLMIDGB, COLMIDGC, etc.) and the index map name will end with an ampersand (&). If no industrial facilities discharges, drinking water intakes, water gages, or water impoundments exist within the park's study area, these files will not be in the compressed (ZIP) file.

(h) COLMSEHY

- PCL and CLP (Windows Clipboard) copies of the hydrographs or other materials used by WRD staff as the basis for a first attempt at a seasonal analysis of the park's water quality data.

Other materials may also be included in this miscellaneous compressed (ZIP) file as warranted by conditions at the park. As with COLMFIGS.ZIP and COLMTABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in COLMMISC.ZIP provided the ZIP file doesn't span multiple disks. You should not, however, use PRINTZIP to print the WordPerfect document files. The CLP (Windows Clipboard) files can be imported (pasted) and/or edited in most Windows-based word processors and graphics packages.

(6) <u>COLMRF3.ZIP</u>

This compressed file contains the Environmental Protection Agency's River Reach File Ver. 3.0 provisional data for the USGS catalog unit(s) encompassing the study area. The attribute data exist in both ASCII and DBASE III+ format, while the geographic traces exist in ASCII format. This compressed file contains four files for each catalog unit that touches the study area. Catalog units are identified by unique 8-character numeric names which identify the region, subregion, accounting unit, and catalog unit. Examples (your 8-character numeric names will be different) of the file types included in this compressed file are:

(a) 12345678.RF3

- ASCII formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.

(b) 12345678.DBF

DBASE III+ formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.

(c) 12345678.TRC

 ASCII formatted geographic file from the River Reach File containing digital, geo-referenced descriptions of all hydrographic traces within the catalog unit at a scale of 1:100,000 suitable for import into a geographic information system.

(d) 12345678.CUB

- ASCII formatted geographic file from the River Reach File containing a digital, geo-referenced description of the catalog unit boundary suitable for import into a geographic information system.

Detailed database structures for RF3-related files are contained in Appendix B.

(7) <u>COLMWQMW.ZIP</u>

Between 2000 and 2002, all Baseline Water Quality Data Inventory and Analysis Reports were compiled or re-compiled in Microsoft Word 2000 (Ver. 9.0) format. This complete, digital version of the report will be made available through various means, including the Internet. Although the reports can be opened in Microsoft Word 1997 (Ver. 8.0), the time series and annual and seasonal box-plots may not be centered appropriately on a page due to discrepancies with how Word 2000 formats pictures and how Word 1997 formatted pictures. Consequently, Word 2000 is the recommended software for viewing the report. Prior to printing the report from Word, be sure to enable "Print Text as Graphics" or "Print True Type Font as Graphics" in the Printer Properties. This ensures a more faithful reproduction of the maps included in the Word document.

The Microsoft Word version of the Baseline Water Quality Data Inventory and Analysis Report may differ slightly from the original analog version. Reports issued during 1994-1996 didn't have as many "bells-and-whistles" as subsequent reports. In compiling digital Microsoft Word versions of these earlier reports, attempts were made to bring these 1994-1996 reports up to the current standard wherever feasible and practicable. Unfortunately, some changes were not feasible or practicable. For example, water quality criteria screens were added or modified over time when newer criteria became available. The digital Microsoft Word version of Appendix F presents the latest criteria screening parameters and values. Some of these parameters and/or values may not have been screened against in the EPA water quality criteria analyses for each station and the entire study area in the 1994-1996 analog versions of the report. Similarly, the Introduction, Methodology, and Interpretive Guide to Water Quality Results may mention certain features that aren't included in the 1994-1996 reports. Additionally, to prepare a Microsoft Word version of this report, data were processed through different versions of software than used originally. Consequently, some results presented in the Overview and Executive Summary may differ slightly from those presented in the analog report (eg. # of In Park and Longer Term Stations).

Appendix B

Water Quality Database File Structures

The following table provides the DBASE III+ database field structure for all the water quality parameter data downloaded from STORET. This data will allow parks or other interested parties to replicate the statistical analyses and graphics contained in this report; perform more sophisticated analyses; or to establish a baseline park water quality database.

	Parameter Data File: COLMPARM.DBF in COLMPARM.ZIP					
Field Name	Start	Stop	Length	Field Description		
NPSSTATID	1	8	8	NPS Station ID (NPS park code + 4 digit sequence number)		
BEGDATE	9	14	6	Measurement Start Date [yymmdd]		
BEGTIME	15	18	4	Measurement Start Time [hhmm]		
PARMCODE	19	23	5	STORET Parameter Code		
PARMVALU	24	39	16.7	Parameter Value		
REMARK	40	40	1	Parameter Remark Value		
				A=Value is Mean of 2 or More Determinations		
				B=Results Based Upon Colony Counts Outside Acceptable Range		
				C=Value Calculated		
				D=Field Measurement		
				E=Extra Sample Taken in Compositing Process		
				F=Female Species		
				G=Maximum of 2 or More Determinations		
				H=Based on Field Kit Determination		
				I=Value is Less Than Practical Quantitation Limit and Greater Than or Equal to the Method Detection Limit		
				J=Estimated, Not the Result of Analytic Measurement		
				K=Off-scale Low, Actual Value Not Known, But Known to be Less Than Value Shown		
				L=Off-scale High, Actual Value Not Known, But Known to be Greater Than Value Shown		

Parameter Data File: COLMPARM, DBF in COLMPARM. ZIP					
Field Name	Start	Stop	Length	Field Description	
				M=Presence Verified, But Not Quantified, Below Quantification Limit; For Species, Male; For Oxygen Reduction Potential, Indicates a Negative Value	
				N=Presumptive Evidence of Presence	
				O=Analysis Lost	
				P=Too Numerous to Count	
				Q=Exceeded Normal Holding Time	
				R=Significant Rain in Last 48 Hours	
				S=Laboratory test	
				T=Less Than Detection Criteria	
				U=Analyzed For But Not Detected, Value is Detection Limit For Process Used; If Species, Undetermined	
				V=Analyte was Detected in Sample and Method Blank	
				W=Less Than Lowest Value Reportable Under Remark "T"	
				X=Quasi Vertically-Integrated Sample	
				Y=Analysis of Unpreserved Sample	
				Z=Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value	
				\$=Calculated By Retrieval Software	
MEDIA	41	46	6	Sample Media	
DEPTH	47	55	9.3	Depth of Sample [in feet]	
ENDDATE	56	61	6	Measurement End Date [yymmdd] [all composite samples]	
ENDTIME	62	65	4	Measurement End Time [hhmm] [all composite samples]	
SAMPTYPE	66	69	4	Type of Sample ["sophisticated" composite samples]	
				C=Continuous Collection	
				G=Collection of Individual Grab Samples	
				GNxx=xx is the Number of Individual Grab Samples	
				B=N/A	

	Parameter Data File: COLMPARM.DBF in COLMPARM.ZIP					
Field Name	Start	Stop	Length	Field Description		
СОМРТҮРЕ	70	70	1	Composite Value Type ["sophisticated" composite samples]		
				A=Average		
				H=Maximum		
				L=Minimum		
				N=Number of Observations		
				#=Number of Observations		
				S=Standard Deviation		
				U=Sum of Squares		
				V=Variance		
				C=Coefficient of Error		
				X=Coefficient of Variance		
				E=Skewness		
				F=Kurtosis		
				Z=Number of Observations That Exceed an Established Limit		
				%=Precision		
				\$=Accuracy		
				B=N/A		
				D=Indicates Replicate Sample		
COMPST	71	71	1	Composite Space/Time Indicator		
				S=Space		
				T=Time		
				B=Space and Time		
				F=Flow Proportional		
				1-9=Replicate Number		

Note: DBASE III+ record lengths will be one greater than the last stop column displayed (71 here) because DBASE III+ reserves the first space/column of every record for a deletion flag. Hence, DBASE III+ will display a record length of 72 for this database.

The following table provides the DBASE III+ database field structure for all the water quality station locations downloaded from STORET. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Water Quality Station Data File: COLMWQ.DBF in COLMSITE.ZIP					
Field Name	Start	Stop	Length	Field Description	
NPSSTATID	1	8	8	NPS Station ID (NPS park code + 4 digit sequence number)	
AGENCY	9	16	8	Agency Code of Station Owner	
STORIDP	17	31	15	STORET Primary Station Code	
STORIDS1	32	43	12	STORET First Secondary Station Code	
STORIDS2	44	55	12	STORET Second Secondary Station Code	
STORIDS3	56	65	10	STORET Third Secondary Station Code	
LATITUDE	66	73	8	Station Latitude [degrees:minutes:seconds]	
LONGITUDE	74	82	9	Station Longitude [degrees:minutes:seconds]	
LAT	83	93	11.6	Station Latitude [decimal degrees, (-) below equator]	
LON	94	104	11.6	Station Longitude [decimal degrees, (-) western hemisphere]	
LLPREC	105	105	1	Latitude/Longitude Precision Code	
RMI	106	329	224	River Mile Index	
STATLOC	330	377	48	Station Location Description	
CNTYCODE	378	382	5	FIPS State/County Code	
STNAME	383	398	16	State Name	
CNTYNAME	399	418	20	County Name	
HYDUNIT	419	426	8	Hydrologic Unit Code (MAJ/MIN/SUB = Catalog Unit)	
MAJBASN	427	450	24	Major Basin Name	
MINBASN	451	490	40	Minor Basin Name	
STATTYPE	491	550	60	Station Type	
STORDATE	551	556	6	Date Station was Stored in STORET	
RF1INDEX	557	567	11	RF1 Reach Number Location [2]	
RF1MILE	568	575	8.3	Mile Point on RF1 Reach [2]	
RF1LOC	576	578	3	Indicates the Location as ON or OFF RF1 Reach [2]	
RF1DIST	579	584	6.2	Distance From RF1 Reach	

Water Quality Station Data File: COLMWQ.DBF in COLMSITE.ZIP								
Field Name	Start	Stop	Length	Field Description				
RF3INDEX	585	601	17	RF3 Reach Number Location [3]				
RF3MILE	602	607	6.2	Mile point on RF3 Reach [3]				
RF3LOC	608	610	3	Indicates the Location as ON or OFF RF3 Reach [2]				
RF3DIST	611	616	6.2	Distance From RF3 Reach				
DEPH2O	617	620	4	Depth of Water at Station Location [in feet]				
ELEV	621	625	5	Station Elevation				
ECOREG	626	628	3	ECO Region				
H2OBODY	629	678	50	Waterbody ID				
AQUIFERS	679	718	40	Aquifer Description				
STATDESC1	719	790	72	Station Sentence Description				
STATDESC2	791	862	72	Station Sentence Description				
STATDESC3	863	934	72	Station Sentence Description				
STATDESC4	935	1006	72	Station Sentence Description				
STATDESC5	1007	1078	72	Station Sentence Description				
STATDESC6	1079	1150	72	Station Sentence Description				
STATDESC7	1151	1222	72	Station Sentence Description				
STATDESC8	1223	1294	72	Station Sentence Description				
STATDESC9	1295	1366	72	Station Sentence Description				
STATDESC10	1367	1438	72	Station Sentence Description				
STATDESC11	1439	1510	72	Station Sentence Description				
STATDESC12	1511	1582	72	Station Sentence Description				
STATDESC13	1583	1654	72	Station Sentence Description				
STATDESC14	1655	1726	72	Station Sentence Description				
STATDESC15	1727	1798	72	Station Sentence Description				
STATLOCKED	1799	1799	1	Station Locked (Logical) True/False				

The following table provides the DBASE III+ database field structures for the EPA Industrial Facilities Discharge database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

	Industrial Facilities Discharges File: COLMIFD.DBF in COLMSITE.ZIP								
Field Name	Start	Stop	Length	Field Description					
SITEID	1	9	9	Site Identifier (NPDES Number)					
LATITUDE	10	17	8	Facility Latitude (Degrees:Minutes:Seconds)					
LONGITUDE	18	26	9	Facility Longitude (Degrees:Minutes:Seconds)					
LAT	27	37	11.6	Facility Latitude (decimal degrees, (-) below equator)					
LON	38	48	11.6	Facility Longitude (decimal degrees, (-) west. hem.)					
RF1INDEX	49	59	11	RF1 Reach Number Location					
RF1MILE	60	65	6.2	Mile Point on RF1 Reach					
RF1DIST	66	71	6.2	Distance From RF1 Reach					
RF3INDEX	72	88	17	RF3 Reach Number Location					
RF3MILE	89	94	6.2	Mile Point on RF3 Reach					
RF3DIST	95	100	6.2	Distance From RF3 Reach					
ADR	101	125	25	Address					
BFL	126	132	7.2	Total Direct Combined C&P Flow (1000 GPD)					
CCFLG	133	133	1	Coastal County Flag "Y"/"N"/"E"=Estuary					
CC1	134	138	5	City Code #1 (EPA Code)					
CFL	139	145	7.2	Total Direct Cooling Flow (1000 GPD)					
CNC	146	148	3	County Code (FIPS)					
CTY	149	168	20	City Name					
CZIP	169	177	9	Canadian Zip Code					
DNB	178	186	9	Dunn & Bradstreet Number					
DNBFLG	187	187	1	Dunn & Bradstreet PCS Source Flag					
EGF	188	202	15.4	Flow From Effluent Guidelines (1000 GPD)					
EGS	203	208	6	Effluent Guidelines Subcategory					
EXPDT	209	216	8	Expiration Date (mm/dd/yy)					
E308SN	217	220	4	Effluent Guidelines Survey Number					
FAC	221	229	9	SCS Facility Identifier (Cross-Reference)					
FDS	230	232	3	Facility Data Source					

	Industrial Facilities Discharges File: COLMIFD.DBF in COLMSITE.ZIP								
Field Name	Start	Stop	Length	Field Description					
FFL	233	239	7.2	Total Facility Flow (1000 GPD)					
FHF	240	240	1	Fac. Hit Flag (Reach File) V=Versar Assumed					
FLOTYP	241	243	3	I=Blow Down, R=Bottom Ash, S=Fly Ash					
FLR	244	250	7.2	Flow Recvd-Industrial (1000 GPD) Permit Data					
FRDS	251	259	9	FRDS ID# - XREF To Water Supply					
FRW	260	289	30	Facility Receiving Water Name					
FS1	290	293	4	Facility SIC Code (From PCS)					
FS2	294	297	4	Facility SIC Code #1					
FS3	298	301	4	Facility SIC Code #2					
FS4	302	305	4	Facility SIC Code #3					
FS5	306	309	4	Facility SIC Code #4					
FUD	310	317	8	Facility Level Last Date Updated (mm/dd/yy)					
IACC	318	318	1	Inactive/Active Indicator ("I" or "A")					
ICAT	319	320	2	WQAB Industrial Category					
ICAT2	321	322	2	WQAB Industrial Category 2					
ICAT3	323	324	2	WQAB Industrial Category 3					
IFL	325	331	7	Total Indirect Flow (1000 GPD)					
IFT	332	332	1	Illinois Facility Type (A thru Z)					
IG1	333	334	2	Facility Industrial Group #1					
IG2	335	336	2	Facility Industrial Group #2					
IJCN	337	346	10	Canadian Record Identifier					
INACT	347	353	7	Inactive/Rescinded P=Based on Permit;A=Actual					
INDCNT	354	357	4	Computed Number of Indirect Dischargers					
LATLON	358	372	15	Polygon Retrieval Lat/Long.					
MAJ	373	373	1	Major-Minor Flag (From PCS)					
MAPID	374	377	4	Map Identifier					
MJMN	378	381	4	Major/Minor Basin (EPA-STORET)					
NAM	382	441	60	Facility Name					
NDC	442	444	3	Number of Discharges (Pipes)					

	Industrial Facilities Discharges File: COLMIFD.DBF in COLMSITE.ZIP								
Field Name	Start	Stop	Length	Field Description					
NDSFLO	445	451	7.2	NEEDS Flow (1000 GPD)					
NDSIFLO	452	458	7.2	NEEDS Industrial Flow (1000 GPD)					
NID	459	462	4	Number of Indirect Dischargers					
NPC	463	463	1	NEEDS Pre-Treatment Code "Y"=Yes, "N"=No					
NPS	464	464	1	NPDES Facility Source/Status					
NSN	465	473	9	NEEDS Survey Number					
NTC	474	474	1	NEEDS Treatment Code					
ОСР	475	480	6	Organic Chemical Producers ID Number					
ODESCC	481	481	1	ODES Coastal County "Y"=Yes; "N"=No					
OFL	482	488	7.2	Total Non-Direct Other Flow (1000 GPD)					
OWN	489	491	3	Ownership Code					
PFL	492	498	7.2	Total Direct Process Flow (1000 GPD)					
REG	499	500	2	EPA Region					
REGKEY	501	504	4	Region Key					
RSLOFLO	505	511	7.2	Receiving Stream Low Flow					
RSMNFLO	512	518	7.2	Receiving Stream Mean Flow					
STA	519	520	2	State Postal Abbreviation					
STAID	521	535	15	State Identifier					
STC	536	537	2	State Code (FIPS)					
STCITY	538	544	7	State/City Code					
TFLOW	545	551	7.2	Type Flow (1000 GPD)					
UFL	552	558	7.2	Total Direct Undefined Flow (1000 GPD)					
XEGS	559	561	3	Effluent Guidelines Subcat Index					
XKEY	562	562	1	"1","2","3","4","5","6","7","8","9"					
XNME	563	565	3	GLP,DIR,F2C,ENF,CET,LAG,PPB,M85,M86					
ZIP	566	570	5	Zip Code					

The following table provides the DBASE III+ database field structures for drinking water intakes from the EPA DRINKS database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

	Drinking Water Intakes File: COLMDRIN.DBF in COLMSITE.ZIP							
Field Name	Start	Stop	Length	Field Description				
SITEID	1	20	20	Site Identifier				
LATITUDE	21	28	8	Facility Latitude (Degrees:Minutes:Seconds)				
LONGITUDE	29	37	9	Facility Longitude (Degrees:Minutes:Seconds)				
LAT	38	48	11.6	Facility Latitude (decimal degrees, (-) below equator)				
LON	49	59	11.6	Facility Longitude (decimal degrees, (-) west. hem.)				
RF1INDEX	60	70	11	RF1 Reach Number Location				
RF1MILE	71	76	6.2	Mile Point on RF1 Reach				
RF1DIST	77	82	6.2	Distance From RF1 Reach				
RF3INDEX	83	99	17	RF3 Reach Number Location				
RF3MILE	100	105	6.2	Mile Point on RF3 Reach				
RF3DIST	106	111	6.2	Distance From RF3 Reach				
AQCD	112	115	4	Aquifer Code				
ASC	116	138	23	STORET Agency/Station Code				
AVGD	139	142	4	Average Depth				
BUY	143	143	1	Purchase Code				
CC1	144	148	5	City Code #1 (EPA Code)				
CNC	149	151	3	County Code (FIPS)				
CNME	152	166	15	Contact Name				
CNN	167	186	20	County Name				
CTITLE	187	201	15	Contact Title				
СТҮ	202	221	20	City Name				
DUD	222	229	8	Date of Update				
FRDS	230	238	9	FRDS ID# - Cross-Reference				
GEOAG	239	258	20	Geologic Age				
GEOCDE	259	261	3	Geologic Age Code				
IDAT	262	269	8	Date (mm/dd/yy)				

	<u>Drinking Water Intakes File</u> : COLMDRIN.DBF in COLMSITE.ZIP							
Field Name	Start	Stop	Length	Field Description				
INTAKET	270	270	1	Type Source G/S/B				
INTRVWR	271	285	15	Interviewer				
MAXD	286	289	4	Maximum Depth				
MILES	290	296	7.2	Miles				
MIND	297	300	4	Minimum Depth				
NAME	301	320	20	Name				
NPD	321	329	9	NPDES# XREF to IFD Database				
NWLS	330	332	3	Number of Wells				
OWN	333	335	3	Ownership				
PAVGF	336	342	7.2	Production Avg. Daily (Gal/Day)				
PCTSUP	343	345	3	%Surface / %Ground				
PHONE	346	355	10	Telephone Number				
PMAXF	356	362	7.2	Production Max. Daily (Gal/Day)				
POPSV	363	371	9	Population Served				
REG	372	373	2	EPA Region				
SHLAT	374	379	6	Sitehelp Latitude (DDMMSS)				
SHLNG	380	386	7	Sitehelp Longitude (DDDMMSS)				
SHMILES	387	393	7.2	Sitehelp Miles				
SHNME	394	403	10	Sitehelp Source Name				
SHPCT	404	410	7.2	Sitehelp Percent of Reach Miles				
SRC	411	413	3	Sitehelp Source Code				
STA	414	415	2	State Abbreviation				
STC	416	417	2	State Code (FIPS)				
TUF	418	424	7.2	Total Utility Flow				
TYPCDE	425	425	1	Type Code				
UHF	426	426	1	Utility Hit Flag (Reach File)				
VCDE	427	427	1	Versar Code='V'=>25K; '*'=<25K POPSVD				
WFPC	428	428	1	Wellfield Precision Code				
WFTYP	429	429	1	Well Type (Cassing, Artesian, Infiltration, etc.)				

Drinking Water Intakes File: COLMDRIN.DBF in COLMSITE.ZIP						
Field Name	Start	Stop	Length	Field Description		
WUN	430	449	20	Water Utility Name		

The following table provides the DBASE III+ database field structures for the Water Gage database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Water Gage File: COLMGAGE.DBF in COLMSITE.ZIP							
Field Name	Start	Stop	Length	Field Description			
SITEID	1	20	20	Site Identifier			
LATITUDE	21	28	8	Facility Latitude (DDMMSS)			
LONGITUDE	29	37	9	Facility Longitude (DDDMMSS)			
LAT	38	48	11.6	Facility Latitude (decimal degrees, (-) below equator)			
LON	49	59	11.6	Facility Longitude (decimal degrees, (-) west. hem.)			
RF1INDEX	60	70	11	RF1 Reach Number Location			
RF1MILE	71	76	6.2	Mile Point on RF1 Reach			
RF1DIST	77	82	6.2	Distance From RF1 Reach			
RF3INDEX	83	99	17	RF3 Reach Number Location			
RF3MILE	100	105	6.2	Mile Point on RF3 Reach			
RF3DIST	106	111	6.2	Distance From RF3 Reach			
JAN	112	118	7.2	Monthly Flow - January			
FEB	119	125	7.2	Monthly Flow - February			
MAR	126	132	7.2	Monthly Flow - March			
APR	133	139	7.2	Monthly Flow - April			
MAY	140	146	7.2	Monthly Flow - May			
JUN	147	153	7.2	Monthly Flow - June			
JUL	154	160	7.2	Monthly Flow - July			
AUG	161	167	7.2	Monthly Flow - August			
SEP	168	174	7.2	Monthly Flow - September			
ОСТ	175	181	7.2	Monthly Flow - October			
NOV	182	188	7.2	Monthly Flow - November			
DEC	189	195	7.2	Monthly Flow - December			
RGN	196	197	2	Region Code			
AREA	198	204	7.2	Drainage Area (SQ.MI.)			
DUD	205	212	8	Date of Update			

	Water Gage File: COLMGAGE.DBF in COLMSITE.ZIP							
Field Name	Start	Stop	Length	Field Description				
FBCF	213	213	1	Flag - Basic Characteristic File ('Y')				
FDFF	214	214	1	Flag - Daily Flows File ('Y')				
FQMINV	215	224	10	IHS Pt. Files Index				
GHF	225	225	1	Hit Flag (Reach File)				
ICDE	226	226	1	Integrity Code				
LFVEL	227	233	7.2	Low Flow Velocity				
METHOD	234	236	3	Calculation Method Code				
MFVEL	237	243	7.2	Mean Flow Velocity				
MNFLO	244	250	7.2	USGS Mean Annual Flow				
NME	251	298	48	Station Name				
SHLAT	299	304	6	Sitehelp Latitude (DDMMSS)				
SHLNG	305	311	7	Sitehelp Longitude (DDDMMSS)				
SHMILES	312	318	7.2	Sitehelp Miles				
SHNME	319	328	10	Sitehelp Source Name				
SHPCT	329	335	7.2	Sitehelp Percent of Reach Miles				
SITE	336	337	2	Site Location				
SRC	338	340	3	Sitehelp Source Code				
STCTY	341	345	5	State/County Numeric Code				
SVTEN	346	352	7.2	USGS 7-10 Year Flow				
BEG_WYR	353	356	4	Beginning Water Year				
END_WYR	357	359	4	Ending Water Year				
ELEV	361	368	8.2	Elevation (Feet)				
WELL_DP	369	376	8.2	Well Depth (Feet)				

The following table provides the DBASE III+ database field structures for the Water Impoundment database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

	Water In	npoundmen	t File: CO	LMDAMS.DBF in COLMSITE.ZIP
Field Name	Start	Stop	Length	Field Description
SITEID	1	7	7	Site Identifier
SOURCE	8	10	3	Source of Data
ST1	11	12	2	Primary State Code Abbreviation
STCTY1	13	17	5	State/County Numeric Code
NAME	18	47	30	Official Name of Dam
LATITUDE	48	53	6	Facility Latitude (DDMMSS)
LONGITUDE	54	60	7	Facility Longitude (DDDMMSS)
LAT	61	70	10.6	Facility Latitude (decimal degrees, (-) below equator)
LON	71	81	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
INME	82	111	30	Impoundment Name
RNME	112	139	28	River, Stream, or Tributary Name on Which Dam Built
CUSEGMI	140	149	10	Catalog Unit, Segment, and Segment Length
REGN	150	151	2	Water Resources Council Region Code
RGBSN	152	155	4	Water Resources Region/Basin Code
CU	156	163	8	Catalog Unit
SEG	164	166	3	Reach Segment of Dam
SEGL	167	171	5.2	Reach Segment Length
PURP	172	172	1	Major Purpose of Dam
				I=Irrigation
				H=Hydroelectric
				N=Navigation
				S=Water Supply
				R=Recreation
				P=Stock/Farm Pond
				D=Debris Control
				F=Flood Control

	Water Im	npoundmen	t File: CO	LMDAMS.DBF in COLMSITE.ZIP
Field Name	Start	Stop	Length	Field Description
				O=Other
FRF3	173	189	17	RF3 Reach Number Location
FRF3MI	190	194	5	Mile Point on RF3 Reach
PURPKEY	195	195	1	Purpose Key
PUR2	196	196	1	Purpose of Dam 2 (See Above)
PUR3	197	197	1	Purpose of Dam 3 (See Above)
PUR4	198	198	1	Purpose of Dam 4 (See Above)
PUR5	199	199	1	Purpose of Dam 5 (See Above)
PUR6	200	200	1	Purpose of Dam 6 (See Above)
PUR7	201	201	1	Purpose of Dam 7 (See Above)
PUR8	202	202	1	Purpose of Dam 8 (See Above)
PUR9	203	203	1	Purpose of Dam 9 (See Above)
PUR10	204	204	1	Purpose of Dam 10 (See Above)
TYPDAM	205	206	2	Major Dam Portion Type
				RE=Earth
				VA=Vaulted Arch
				CD=Buttress
				PG=Gravity
				ER=Rockfill
				MV=Multi-Arch
				OT=Other
YRCMP	207	210	4	Year Dam Completed
SHGT	211	214	4	Structural Height (Feet)
HHGT	215	218	4	Hydraulic Height (Feet)
VNORM	219	236	8	Normal Storage of Impoundment (Acre-Feet)
VMAX	227	234	8	Maximum Storage of Impoundment (Acre-Feet)
LCRST	235	239	5	Crest Length of Dam (Feet)
TSPL	240	240	1	Spillway Type
				C=Controlled

	Water In	npoundmen	t File: CO	LMDAMS.DBF in COLMSITE.ZIP
Field Name	Start	Stop	Length	Field Description
				U=Uncontrolled
				N=None
				X=Unknown
WSPL	241	244	4	Dam Spillway Width (Feet)
QMAX	245	251	7	Maximum Spillway Discharge (CFS)
PINS	252	258	7.2	Quantity of Installed Power (Megawatts)
PPRO	259	265	7.2	Quantity of Proposed Power (Megawatts)
LOCK	266	266	1	Number of Navigational Locks
OWNR	267	290	24	Name of Impoundment Owner
PFOWN	291	291	1	Ownership Code
				N=Non-Federal
				G=Federal Government Agency
				C=Corps of Engineers
				X=Unknown
FEDR	292	292	1	Federally Regulated (Y=Yes, N=No, X=Unknown)
FLND	293	293	1	Private Dam on Federal Land (Y=Yes, N=No, X=Unknown)
SCSA	294	294	1	Type of Soil Conservation Service Assistance
				N=No Assistance
				T=Technical Assistance
				F=Financial Assistance
				B=Both Technical and Financial Assistance
				X=Unknown
DHAZ	295	295	1	Degree of Downstream Hazard
				1=High (More than a Few Lives Lost; Excessive Economic Loss)
				2=Significant (A Few Lives Lost; Appreciable Economic Loss)
				3=Low (No Lives Expected Lost; Minimal Economic Loss)
DCITY	296	319	24	Nearest Downstream City

Water Impoundment File: COLMDAMS.DBF in COLMSITE.ZIP						
Field Name Start Stop Length Field Description						
POP	320	326	7	Population of Downstream City		
DMILE	327	331	5.2	Distance of Downstream City From Dam (Miles)		
RET	332	342	11.2	Retention Coefficient (Dimensionless)		
MIX	343	353	11.2	Mixing Coefficient (Dimensionless)		
SAREA	354	361	8	Surface Area of Impoundment (Acres)		
SAFLG	362	362	1	Surface Area Flag (C=Calc., M=Measured, O=Other)		
ILNTH	363	367	5	Length of Impoundment (Feet)		
ILFLG	368	368	1	Impoundment Length Flag (C=Calc., M=Measured, O=Other)		
UPKEY	369	374	6	Update Key (YYMMDD)		

The following table provides the ASCII and DBASE III+ database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) attributes. The actual numeric file names will vary depending on the catalog unit(s). This information can be readily incorporated into the park's Geographic Information System.

RF3 Structure File: 12345678.RF3 and 12345678.DBF in COLMRF3.ZIP						
Field Name	Start	Stop	Length	Field Description		
CATUNIT	1	8	8	Cataloging Unit (CU)		
SEGM	9	12	4	Segment Number (SEG)		
MI	13	17	5.2	Mile Point (MI)		
UPMI	18	22	5.2	Upstream Mile Pt.		
SEQNO	23	33	11.6	Hydro Sequence No.		
RFLAG	34	34	1	Reach Flag (0,1)		
OWFLAG	35	35	1	Open Water Flag (0,1)		
TFLAG	36	36	1	Terminal Flag (0,1)		
SFLAG	37	37	1	Start Flag (0,1)		
RCHTYPE	38	38	1	Reach Type Code		
LEV	39	40	2	Stream Level		
JUNC	41	42	2	Level of Downstream Reach		
DIVERGENCE	43	43	1	Divergence Code		
STARTCU	44	51	8	Start CU		
STRTSG	52	55	4	Start SEG		
STOPCU	56	63	8	Stop CU		
STOPSG	64	67	4	Stop SEG		
USDIR	68	68	1	Upstream Direction		
TERMID	69	73	5	Terminal Stream ID		
TRMBLV	74	74	1	Terminal Base Level		
PNAME	75	104	30	Primary Name		
PNMCD	105	115	11	Primary Name Code		
CNAME	116	145	30	Complement Name		
CNMCD	146	156	11	Complement Name Code		

RF3 Structure File: 12345678.RF3 and 12345678.DBF in COLMRF3.ZIP						
Field Name	Start	Stop	Length	Field Description		
OWNAME	157	186	30	Open Water Name		
OWNMCD	187	197	11	Open Water Name Code		
DSCU	198	205	8	Downstream CU		
DSSEG	206	209	4	Downstream SEG		
DSMI	210	214	5.2	Downstream MI		
CCU	215	222	8	Complement CU		
CSEG	223	226	4	Complement SEG		
CMILE	227	231	5.2	Complement MI		
CDIR	232	232	1	Complement Direction		
ULCU	233	240	8	Upstream Left CU		
ULSEG	241	244	4	Upstream Left SEG		
ULMI	245	249	5.2	Upstream Left MI		
URCU	250	257	8	Upstream Right CU		
URSEG	258	261	4	Upstream Right SEG		
URMI	262	266	5.2	Upstream Right MI		
SEGL	267	272	6.2	Reach Length (Miles)		
RFORGFLAG	273	273	1	RF Orgin flag(1,2,3)		
ALTPNMCD	274	281	8	Alt. Primary Name Code		
ALTOWNMC	282	289	8	Alt. OW Name Code		
DLAT	290	297	8.4	Downstream Latitude		
DLONG	298	305	8.4	Downstream Longitude		
ULAT	306	313	8.4	Upstream Latitude		
ULONG	314	321	8.4	Upstream Longitude		
MINLAT	322	329	8.4	Minimum Latitude		
MINLONG	330	337	8.4	Minimum Longitude		
MAXLAT	338	345	8.4	Maximum Latitude		
MAXLONG	346	353	8.4	Maximum Longitude		
NDLGREC	354	357	4	No. of DLG Records		
LL1KEY1	358	367	10	Starting DLG LL Key1		

RF3 Structure File: 12345678.RF3 and 12345678.DBF in COLMRF3.ZIP						
Field Name	Start	Stop	Length	Field Description		
LL2KEY1	368	377	10	Ending DLG LL Key1		
LL1KEY2	378	387	10	Starting DLG LL Key2		
LL2KEY2	388	497	10	Ending DLG LL Key2		
LL1KEY3	398	407	10	Starting DLG LL Key3		
LL2KEY3	408	417	10	Ending DLG LL Key3		
LL1KEY4	418	427	10	Starting DLG LL Key4		
LL2KEY4	428	437	10	Ending DLG LL Key4		
LL1KEY5	438	447	10	Starting DLG LL Key5		
LL2KEY5	448	457	10	Ending DLG LL Key5		
LL1KEY6	458	467	10	Starting DLG LL Key6		
LL2KEY6	468	477	10	Ending DLG LL Key6		
LL1KEY7	478	487	10	Starting DLG LL Key7		
LL2KEY7	488	597	10	Ending DLG LL Key7		
LL1KEY8	498	507	10	Starting DLG LL Key8		
LL2KEY8	508	517	10	Ending DLG LL Key8		
LL1KEY9	518	527	10	Starting DLG LL Key9		
LL2KEY9	528	537	10	Ending DLG LL Key9		
LL1KEY10	538	547	10	Start DLG LL Key 10		
LL2KEY10	548	557	10	Ending DLG LL Key10		
LN1AT2	558	561	4	DLG Line Attr. 1		
LN2AT2	562	565	4	DLG Line Attr. 2		
AREA1	566	569	4	DLG Area ID 1		
AREA2	570	573	4	DLG Area ID 2		
AR1AT2	574	577	4	DLG Area Attribute		
AR1AT4	578	581	4	DLG Area Attribute		
AR2AT2	582	585	4	DLG Area Attribute		
AR2AT4	586	589	4	DLG Area Attribute		
UPDATE1	590	595	6	Update Date #1 (mmddyy)		
UPDTCD1	596	603	8	Update Type Code #1		

RF3 Structure File: 12345678.RF3 and 12345678.DBF in COLMRF3.ZIP						
Field Name Start Stop Length Field Description						
UPDTSRC1	604	611	8	Update Source #1		
UPDATE2	612	617	6	Update Date #2 (mmddyy)		
UPDTCD2	618	625	8	Update Type Code#2		
UPDTSRC2	626	633	8	Update Source #2		
UPDATE3	634	639	6	Update Date #3 (mmddyy)		
UPDTCD3	640	647	8	Update Type Code #3		
UPDTSRC3	648	655	8	Update Source #3		
DIVCU	656	663	8	Divergent CU		
DIVSEG	664	667	4	Divergent SEG		
DIVMILE	668	672	5.2	Divergent MI		
DLGID	673	678	6	DLG Number Special Use For Internal State Codes		
FILLER	678	685	7	Filler: Future Use		

Note: The structure for the .DBF file varies slightly from the RF3 structure displayed here in that the fields UPDATE1, UPDATE2, and UPDATE3 have a width of 8 and the last two fields, DLGID and FILLER, have been replaced with a field named ID of length 17. This ID field combines the CATUNIT, SEGM, and MI fields.

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) traces. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual hydrographic network and is suitable for conversion into a variety of Geographic Information System formats.

	RF3 Trace File: 12345678.TRC in COLMRF3.ZIP						
Field Name Start Stop Length Field Description							
(Header Record)							
CATUNIT	1	8	8	Cataloging Unit			
SEGM	9	12	4	Segment Number			
MI	13	17	5.2	Mile Point			
NPTS	18	21	4	Number of Lat/Lon Coordinates			
(Coordinate Reco	rd)						
LATITUDE	1	8	8.4	Latitude in Decimal			
LONGITUDE	9	16	8.4	Longitude in Decimal			
FILLER	17	21	5				

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) catalog unit boundary file. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual catalog unit boundary and is suitable for conversion into a variety of Geographic Information System formats.

Catalog Unit Boundary File: 12345678.CUB in COLMRF3.ZIP
First Line = Catalog Unit Number (8 Characters)
Subsequent Lines:
L=DDMMSS,L=DDDMMSS,L=DDDMMSS,L=DDDMMSS,
Example:
02070010
L=391259,L=0770809,L=391220,L=0770749,L=391147,L=0770715,L=391120,L=0770633,
L=391058,L=0770535,L=391042,L=0770520,L=391016,L=0770427,L=390948,L=0770416,
L=390526,L=0765331,L=390500,L=0765149,L=390456,L=0765139,L=390357,L=0765123,
L=390744,L=0771007,L=390826,L=0771022,L=390910,L=0771022,L=390950,L=0771003,
L=391107,L=0770922,
There can be as many as four latitude/longitude pairs per line.

The following table provides the DBASE III+ database field structure of the Water Resources Division's "encyclopedia" file that documents the minimum and maximum parameter values found and the park(s) where they occurred. This file is intended for Water Resources Division internal use, but will be available to anyone upon request after Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks.

Encyclopedia File: WRD File For Internal Use Only						
Field Name Start Stop Length Field Description						
PARM	1	5	5	STORET Parameter Code		
PARMNAME	6	45	40	Parameter Name		
MINVAL	46	61	16.7	Minimum Value		
MINVALPARK	62	65	4	Park Unit with Minimum Value		
MAXVAL	66	71	16.7	Maximum Value		
MAXVALPARK	72	75	4	Park Unit with Maximum Value		

Appendix C

STORET Water Quality Control/Edit Checking

The following table provides the high and low values used by STORET since November 1983 for 190 common water quality parameters to screen or error check data. Data entered into STORET prior to November 1983, however, were not subjected to this edit/bounds check. Additionally, data from the USGS WATSTORE system that is loaded into STORET is never subjected to these edit criteria and agencies entering data in STORET can override these edit criteria to enter data values that fall outside a range. As a consequence, all data downloaded from STORET for the purposes of this project were filtered through these edit criteria to document values outside the generally accepted ranges. Decisions were then made on a case-by-case basis to retain or discard obviously incorrect data. Refer to the Water Quality Observations Outside STORET Edit Criteria section of the Interpretive Guide To Water Quality Results chapter for more information on this subject.

STORET Code	STORET Parameter Description	High Value	Low Value
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	37.0	-2.0
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	98.0	31.0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	52.0	-40.0
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	125.0	-40.0
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE	1990.9	1977.0
00032	CLOUD COVER (PERCENT)	101.0	0.0
00035	WIND VELOCITY (MILES PER HOUR)	85.0	0.0
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	361.0	0.0
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	15.0	0.0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	1500.0	0.0
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	101.0	0.0
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	500.0	0.0
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	1000.0	0.0
00077	TRANSPARENCY, SECCHI DISC (INCHES)	600.0	0.0
00080	COLOR (PLATINUM-COBALT UNITS)	500.0	0.0
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	500.0	0.0
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	250.0	0.0
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	60000.0	1.0
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	60000.0	1.0
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	30.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00300	OXYGEN, DISSOLVED (MG/L)	30.0	0.0
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION%	200.0	0.0
00310	BOD, 5 DAY, 20 DEG C (MG/L)	150.0	0.0
00335	COD, .025N K2CR2O7 (MG/L)	1000.0	0.0
00340	COD, .25N K2CR2O7 (MG/L)	1000.0	0.0
00365	CHLORINE DEMAND, 15 MINUTE (MG/L)	15.0	0.0
00400	PH (STANDARD UNITS)	12.0	0.9
00403	PH, LAB, STANDARD UNITS, (STANDARD UNITS)	12.0	0.9
00405	CARBON DIOXIDE (MG/L AS CO2)	100.0	0.0
00406	PH, FIELD (STANDARD UNITS)	12.0	0.9
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1000.0	0.0
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	750.0	0.0
00435	ACIDITY, TOTAL (MG/L AS CACO3)	1000.0	0.0
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	1000.0	0.0
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	750.0	0.0
00440	BICARBONATE ION (MG/L AS HCO3)	450.0	0.0
00445	CARBONATE ION (MG/L AS CO3)	100.0	0.0
00480	SALINITY - PARTS PER THOUSAND	40.0	0.0
00500	RESIDUE, TOTAL (MG/L)	15000.0	0.0
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10000.0	0.0
00510	RESIDUE, TOTAL FIXED (MG/L)	10000.0	0.0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), (MG/L)	20000.0	0.0
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	10000.0	0.0
00525	RESIDUE, FIXED FILTRABLE (MG/L)	10000.0	0.0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10000.0	0.0
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10000.0	0.0
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10000.0	0.0
00545	RESIDUE, SETTLEABLE (ML/L)	1000.0	0.0
00546	RESIDUE, SETTLEABLE (MG/L)	1000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00550	OIL & GREASE (SOXHLET EXTRACTION) TOTAL,REC., (MG/L)	250.0	0.0
00600	NITROGEN, TOTAL (MG/L AS N)	100.0	0.0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	15.0	0.0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	25.0	0.0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	20.0	0.0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	5.0	0.0
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	50.0	0.0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	50.0	0.0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	55.0	0.0
00635	NITROGEN, AMMONIA & ORG., TOTAL 1 DET (MG/L AS N)	70.0	0.0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	30.0	0.0
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	30.0	0.0
00655	PHOSPHATE, POLY (MG/L AS PO4)	30.0	0.0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	30.0	0.0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10.0	0.0
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10.0	0.0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	100.0	0.0
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	100.0	0.0
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	100.0	0.0
00690	CARBON, TOTAL (MG/L AS C)	150.0	0.0
00720	CYANIDE, TOTAL (MG/L AS CN)	10.0	0.0
00745	SULFIDE, TOTAL (MG/L AS S)	1500.0	0.0
00746	SULFIDE, DISSOLVED (MG/L AS S)	1500.0	0.0
00760	SULFITE WASTE LIQUOR, PEARL BENSON INDEX (MG/L)	150.0	0.0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	5000.0	0.0
00910	CALCIUM (MG/L AS CACO3)	3000.0	0.0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	1000.0	0.0
00916	CALCIUM, TOTAL (MG/L AS CA)	1000.0	0.0
00920	MAGNESIUM (MG/L AS CACO3)	3000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	1000.0	0.0
00927	MAGNESIUM, TOTAL (MG/L AS MG)	1000.0	0.0
00929	SODIUM, TOTAL (MG/L AS NA)	5000.0	0.0
00930	SODIUM, DISSOLVED (MG/L AS NA)	5000.0	0.0
00931	SODIUM ADSORPTION RATIO	50.0	0.0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	175.0	0.0
00937	POTASSIUM, TOTAL MG/L AS K)	175.0	0.0
00940	CHLORIDE, TOTAL IN WATER, (MG/L)	22000.0	0.0
00945	SULFATE, TOTAL (MG/L AS SO4)	2500.0	0.0
00946	SULFATE, DISSOLVED (MG/L AS SO4)	2500.0	0.0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	15.0	0.0
00951	FLUORIDE, TOTAL (MG/L AS F)	15.0	0.0
00955	SILICA, DISSOLVED (MG/L AS SI02)	2000.0	0.0
00956	SILICA, TOTAL (MG/L AS SI02)	2000.0	0.0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	5000.0	0.0
01002	ARSENIC, TOTAL (UG/L AS AS)	5000.0	0.0
01005	BARIUM, DISSOLVED (UG/L AS BA)	2000.0	0.0
01007	BARIUM, TOTAL (UG/L AS BA)	2000.0	0.0
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	2000.0	0.0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	2000.0	0.0
01020	BORON, DISSOLVED (UG/L AS B)	5000.0	0.0
01022	BORON, TOTAL (UG/L AS B)	5000.0	0.0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	500.0	0.0
01027	CADMIUM, TOTAL (UG/L AS CD)	500.0	0.0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	2000.0	0.0
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	2000.0	0.0
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	2000.0	0.0
01034	CHROMIUM, TOTAL (UG/L AS CR)	2000.0	0.0
01040	COPPER, DISSOLVED (UG/L AS CU)	2000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
01042	COPPER, TOTAL (UG/L AS CU)	5000.0	0.0
01045	IRON, TOTAL (UG/L AS FE)	56000.0	0.0
01046	IRON, DISSOLVED (UG/L AS FE)	56000.0	0.0
01047	IRON, FERROUS (UG/L AS FE)	56000.0	0.0
01049	LEAD, DISSOLVED (UG/L AS PB)	1000.0	0.0
01051	LEAD, TOTAL (UG/L AS PB)	1000.0	0.0
01055	MANGANESE, TOTAL (UG/L AS MN)	5000.0	0.0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	5000.0	0.0
01065	NICKEL, DISSOLVED (UG/L AS NI)	2000.0	0.0
01067	NICKEL, TOTAL (UG/L AS NI)	2000.0	0.0
01075	SILVER, DISSOLVED (UG/L AS AG)	5000.0	0.0
01077	SILVER, TOTAL (UG/L AS AG)	5000.0	0.0
01090	ZINC, DISSOLVED (UG/L AS ZN)	25000.0	0.0
01092	ZINC, TOTAL (UG/L AS ZN)	25000.0	0.0
01105	ALUMINUM, TOTAL (UG/L AS AL)	20000.0	0.0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	20000.0	0.0
01145	SELENIUM, DISSOLVED (UG/L AS SE)	100.0	0.0
01501	ALPHA, TOTAL	200.0	0.0
01503	ALPHA, DISSOLVED	75.0	0.0
01505	ALPHA, SUSPENDED	150.0	0.0
03501	BETA, TOTAL	3500.0	0.0
03503	BETA, DISSOLVED	3000.0	0.0
03505	BETA, SUSPENDED	1500.0	0.0
09503	RADIUM 226, DISSOLVED	500.0	0.0
13501	STRONTIUM 90, TOTAL	500.0	0.0
22703	URANIUM, NATURAL, DISSOLVED	500.0	0.0
31501	COLIFORM, TOT,MEMBRANE FILTER,IMMED.M-ENDO MED, 35C	24000000.0	0.0
31502	COLIFORM, TOTAL, 10/ML	24000000.0	0.0
31503	COLIFORM, TOT, MEMBR FILTER, DELAYED, M-ENDO MED, 35C	24000000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
31504	COLIFORM, TOT, MEMBR FILTER, IMMED, LES ENDO AGAR, 35C	24000000.0	0.0
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR,44.5C, 24HR	10000000.0	0.0
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	10000000.0	0.0
31616	FECAL COLIFORM, MEMBR FILTER,M-FC BROTH, 44.5C	10000000.0	0.0
31672	FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C48HR	500000.0	0.0
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	500000.0	0.0
31677	FECAL STREPTOCOCCI,MPN,AD-EVA, 35C (TUBE 31678)	500000.0	0.0
31679	FECAL STREPTOCOCCI, MF M-ENTEROCOCCUS AGAR,35C,48H	500000.0	0.0
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	99999999.0	0.0
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	99999999.0	0.0
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	500.0	0.0
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	750.0	0.0
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	1000.0	0.0
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	200.0	0.0
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	500.0	0.0
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	200.0	0.0
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	2.0	0.0
32221	CHLOROPHYLL A,% OF(PHEOPHYTIN A+CHL A),SPEC-ACID.	101.0	0.0
32230	CHLOROPHYLL A (MG/L)	0.5	0.0
32231	CHLOROPHYLL B (MG/L)	0.8	0.0
32232	CHLOROPHYLL C (MG/L)	0.2	0.0
32234	CHLOROPHYLL, TOTAL (A+B+C) (MG/L)	1.0	0.0
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	5.0	0.0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	1500.0	0.0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10.0	0.0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39340	GAMMA-BHC(LINDANE), WHOLE WATER, (UG/L)	20.0	0.0
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER, (UG/L)	20.0	0.0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	5.0	0.0
60050	ALGAE, TOTAL (CELLS/ML)	700000.0	0.0
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	4000.0	0.0
70505	PHOSPHATE, TOTAL,COLORIMETRIC METHOD (MG/L AS P)	10.0	0.0
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10.0	0.0
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	65.0	0.0
71886	PHOSPHORUS, TOTAL, AS PO4 - (MG/L)	30.0	0.0
71890	MERCURY, DISSOLVED (UG/L AS HG)	10.0	0.0
71895	MERCURY, SUSPENDED (UG/L AS HG)	10.0	0.0
71900	MERCURY, TOTAL (UG/L AS HG)	10.0	0.0
74010	IRON, TOTAL (MG/L AS FE)	56000.0	0.0

Appendix D

STORET Administrative Parameters

STORET Code	Description of STORET Administrative Parameters
00022	LENGTH OF EXPOSURE OF SAMPLE OR TEST - DAYS
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00073	SAMPLE LOC CODE DEFINED BY THERMAL STRUCT & DEPTH
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
00116	INTENSIVE SURVEY IDENTIFICATION NUMBER
00145	TOTAL PRODUCTION OF PRODUCT MANUFACTURED TONS/DAY
01273	TOTAL ACID PRIORITY POLLUTANTS MG/L
01274	TOTAL BASE-NEUTRAL PRIORITY POLLUTANTS MG/L
01275	TOTAL VOLATILE PRIORITY POLLUTANTS MG/L
01365	ANALYSIS DATE (DIOXIN) (YYMMDD)
04177	SAMPLE STABILIZATION, RECOVERY TEST CODE
04178	FIELD PROTOCOL(CONFDNCE ASSIGNED FIELD SAMPLE) CODE
04179	SAMPLE STATION LOCKED CODE
04180	CONDITION OF STATION SITE CODE
04181	LABORATORY QA/QC PLAN CONFIDENCE CODE
04182	SAMPLE TYPE CODE
04183	SAMPLE REMARKS CODE
30333	BAG MESH SIZE, BEDLOAD SAMPLER, MM
34772	NPDES NUMBER, CROSS REFERENCE CODE
34785	GAGE TYPE, METHOD CODE

STORET Code	Description of STORET Administrative Parameters
45575	GC MAKE AND MODEL INFORMATION CODE
45576	GC DETECTOR TYPE CODE
45577	GC COLUMN TYPE CODE
45580	METHOD OF ANALYSIS CODE
45581	LABORATORY LOCATION CODE
46107	SAMPLE LOCATION CODE (TREATMENT PLANT OPERATION)
46390	TOXICITY CHARACTERISTIC LEACHING PROCEDURE P OR F
46396	PROCESS TO SIGNIFICANTLY REDUCE PATHOGENS YES OR NO
46397	PROCESS TO FURTHER REDUCE PATHOGENS YES OR NO
47001	PERMIT EXPIRATION DATE (JULIAN CALENDAR)
47044	OBSERVATIONS,WASTE SITE-SEVERITY OF PROBLEMS CODE
47460	SUBSAMPLE - DECIMAL FRACTION OF WHOLE NUMBER
47477	COMPOSITION AND/OR DISPOSITION OF CATCH NUM CODE
70231	CURRENT DIRECTION (DEGREES FROM DOWNSTREAM FLOW)
71999	SAMPLE PURPOSE CODE
72032	NUMBER OF SPILLWAY GATES OPEN
73672	DATE OF ANALYSIS YYMMDD
73673	DATE OF EXTRACTION YYMMDD
74031	GRANT, PROJECT COST ELIGIBLE FOR CONSTRUCTION
74032	GRANT, AMOUNT OF PL 660 GRANT FOR THIS PROJECT
74033	GRANT, FEDERAL, OTHER THAN PL 660 GRANT
74034	GRANT, FUTURE PL 660 WHICH MAY APPLY TO THIS PROJ
74035	GRANT, TOTAL FEDERAL, WHICH APPLIES TO THIS PROJ
74036	GRANT, PROJ NUMBER ASSIGNED TO THIS APPLICATION
74037	GRANT, TYPE OF PROJECT TO WHICH GRANT APPLIES
74038	GRANT, STATUS OF PROJECT TO WHICH GRANT APPLIES
74039	PCS/STORET WATER QUALITY FILE INTERFACE YR/MO/DAY
74040	SURVEY NUMBER YYMMNO
74041	STORET STORAGE TRANSACTION DATE YR/MO/DAY

STORET Code	Description of STORET Administrative Parameters
74050	RADIOACTIVITY, GENERAL (PERMIT)
74051	ALGICIDES, GENERAL (PERMIT)
74052	CHLORINATED HYDROCARBONS, GENERAL (PERMIT)
74053	PESTICIDES, GENERAL (PERMIT)
74056	COLIFORM, TOTAL, GENERAL (PERMIT)
74065	STREAM FLOW CLASS
74066	ANNUAL RUNOFF
74067	SOIL CLASSIFICATION
74068	WATER QUALITY DESIGNATED USE CLASSIFICATION (IA)
74100	PRIMARY 1972 SIC CODE
74101	SECONDARY 1972 SIC CODE
74102	SECONDARY 1972 SIC CODE
74103	SECONDARY 1972 SIC CODE
74200	SAMPLE PRESERVATION METHODS ONE OR MORE IN COMB.
74205	LAND RESOURCE AREA (IOWA)
74206	SOIL EROSION POTENTIAL (IOWA)
74209	WATER QUALITY INDEX - STATE OF ILLINOIS, EPA
74210	FOREST STREAM WATER QUALITY INDEX CALC. NUMBER
74990	FISH SPECIES NUMERIC CODE - F&W SERVICE
74995	ANATOMY CODE
75000	SPECIES CODE-REMARK=SEX (M=MALE,F=FEMALE,U=UNK.)
81028	WITHDRAWAL OF GROUNDWATER (MILLION GAL/DAY)
82258	WATER CLASSIFICATION CODE (1-9) CODE
82292	DATA RELAY GROUND STATION SOURCE NODE CODE, CODE
82309	CONTAMINATION SOURCE POSSIBLE CODES NUMERIC CODE
82310	DEPTH CONFIDENCE IN REPORTED VALUES NUMERIC CODES
82373	FREQUENCY OF SAMPLING M=MON,Q=QUAR,Y=YR,R=RNFFCODE
82519	DRILLER REGISTRATION NUMBER ALPHA-NUMERIC CODE
82562	NARRATIVE REQUIREMENT EXCEEDANCES INTEGER

STORET Code	Description of STORET Administrative Parameters
82576	DAILY EXCURSION TIME, WATER MIN
82577	MONTHLY EXCURSION TIME, WATER TOTAL MIN
82578	DAY/MAXIMUM EXCURSION TIME, WATER MIN
82579	CODE NUMBER FOR PERSON COLLECTING SAMPLE
84002	CODE, GENERAL INFORMATION - ALPHA, NUMERIC CODE
84003	WATER SHED ID NUMBER (IOWA)
84005	FISH SPECIES CODE-FISH & WILDLIFE SER
84006	OWNERSHIP CLASSIFICATION OF LAKE, ILLINOIS SYSTEM
84010	PUBLIC ACCESS TO LAKE ILLINOIS SYSTEM
84011	CONFIDENCE CODE FOR GLC CONFIRMATION CODE
84012	PATIENT PARAMETERS (AGE, SEX, WT, ETC.) CODE
84013	SAMPLE PARAMETERS D=DESIGN SPECIMEN, S=SURPLUS
84027	CODE NUMBER FOR AGENCY COLLECTING SAMPLE
84028	CODE NO FOR AGENCY ANALYZING SAMPLE
84029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE FIELD
84033	EGD ANALYTICAL DATA COMPLETENESS Y=YES N=NO CODE
84034	EGD SMPL NO.(SMPL.IDENT) NUMERIC=SCS ALPH+4NUM=JRB
84035	EGD SAMPLE CLASSIFICATION CATEGORY ALPHA CODE
84036	EGD INDUSTRIAL CATEGORY NUMERIC CODE
84037	EGD INDUSTRIAL CATEGORY NAME ALPHA CODE
84038	EGD LABORATORY NUMERIC CODE
84039	EGD LABORATORY NAME ALPHA CODE
84040	EGD SAMPLE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84041	EGD ACID STATUS (1-5,9,AND BLANK) NUMERIC CODE
84042	EGD BASE STATUS (1-5,9AND BLANK) NUMERIC CODE
84043	EGD PESTICIDE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84044	EGD VOA FRACT. STATUS INDICATOR (1-5,9,BLANK) CODE
84045	EGD ACID EXTRACT DATE (YYMMDD) NUMERIC CODE
84046	EGD BASE EXTRACTION DATE (YYMMDD) NUMERIC CODE

STORET Code	Description of STORET Administrative Parameters
84047	EGD PESTICIDE EXTRACTION DATE (YYMMDD) NUMERIC CODE
84048	EGD VOA FRACTION INJECTION DATE YYMMDD NUMERIC CODE
84049	EGD ACID CONC. FACTOR (FIVE NUMERIC DIGITS) CODE
84050	EGD BASE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84051	EGD PESTICIDE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84052	EGD VOA FRACTION CONC. FACTOR (5 NUMERIC DIGITS) CODE
84053	SAMPLE TYPE AND FREQUENCY OF COLLECTION CODE
84054	LITHOLOGY ALPHA-NUMERIC CODE
84055	AVAILABLE LOGS ALPHA-NUMERIC CODE
84056	WATER USE CATEGORY ALPHA-NUMERIC CODE
84057	INSPECTION TYPE ALPHA-NUMERIC CODE
84058	HYDROGEOLOGIC SYSTEM ALPHA-NUMERIC CODE
84059	WELL OWNERSHIP ALPHA-NUMERIC CODE
84060	TOPOGRAPHY ALPHA-NUMERIC CODE
84061	WELL USE ALPHA-NUMERIC CODE
84062	MEASURING POINT DESCRIPTION ALPHA-NUMERIC CODE
84063	DRILLING METHOD ALPHA-NUMERIC CODE
84064	WELL DATA AVAILABILITY ALPHA-NUMERIC CODE
84065	PERMIT COMPLIANCE DATA ALPHA-NUMERIC CODE
84067	NATURE OF MONITORING ALPHA-NUMERIC CODE
84073	REPLACES EXISTING WELL ALPHA-NUMERIC CODE
84074	AQUIFER TYPE (SEE USGS HANDBOOK) ALPHA CODE
84075	WELL PERMIT NUMBER ALPHA-NUMERIC CODE
84076	TSD MONITORING WELL TYPE ALPHA CODE
84077	TSD MONITORING WELL SAMPLING METHOD ALPHA CODE
84083	POLLUTION VERIFICATION ALPHA CODE
84084	WELL SAMPLE PURPOSE ALPHA CODE
84090	SAMPLE FILE CONTROL PROJECT IDENTIFICATION A-CODE
84091	INFILTRATION DATE/BEGINNING 'YYMMDD'

STORET Code	Description of STORET Administrative Parameters
84092	INFILTRATION DATE/ENDING 'YYMMDD'
84093	ENFORCEMENT FORM #2-C,DATA IDENTIFICATION CODE
84102	SAMPLE SPECIES-SUB ID ALPHA CODE
84103	DIOXIN LABORATORY ALPHA CODE
84104	DIOXIN STUDY ALPHA CODE
84112	SOURCE OF GEOHYDROLOGIC DATA CODE
84119	SOURCE OF EVACUATION DATA CODE
84121	REGULATING AGENCY CODE
84122	SAMPLE PURPOSE CODE
84126	SOURCE OF DEPTH DATA CODE
84127	METHOD OF DEPTH MEASUREMENT CODE
84128	SOURCE OF WATER-LEVEL DATA CODE
84129	DATA QUALITY
84141	LAKE, PHYSICAL CONDITION AT SAMPLE TIME, 1-5, CODE
84142	LAKE, RECREATIONAL SUITABILITY @ SMPL TIME, 1-5, CODE
84164	SAMPLER TYPE, CODE
85300	PROBLEM CODE NES SURVEY
85327	WATER LEVEL AT SAMPLE COLLECTION TIME-CODE-NES
85332	CLOUD COVER AT SAMPLE COLLECTION TIME-CODE-NES
85553	WELL COMPLETION DATE (MONTH/YEAR)
85554	WELL WORKOVER DATE, LATEST (MONTH/YEAR)

Appendix E

STORET Parameters Not Suitable for Statistical Analysis

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00001	X-SEC. LOC., HORIZ (FT. FROM R BANK LOOK UPSTR.)
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)
00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)
00006	DISTANCE FROM LOCATION IN X MILES
00007	DISTANCE FROM LOCATION IN Y MILES
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00033	WEATHER CODE FOR OCEAN-OBSERV. (WMO CODE 4677)
00037	WIND FORCE (BEAUFORT UNITS)
00038	WIND DIRECTION (WMO CODES 0885 + 0887)
00041	WEATHER (WMO CODE 4501)
00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL
00043	CLOUD TYPE (WMO CODE 0500)
00044	CLOUD AMOUNT (WMO CODE 2700)
00047	TOTAL PARTIAL PRESSURE DISSOLVED GASES (MM HG)
00048	TOTAL PARTIAL PRESSURE DISSOLVED GASES (% SAT)
00049	SURFACE AREA IN SQUARE MILES
00050	EVAPORATION, TOTAL (INCHES PER DAY)
00051	SURFACE AREA IN SQUARE FEET
00053	SURFACE AREA, ACRES
00054	RESERVOIR STORAGE - ACRE FEET
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00067	TIDE STAGE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')
00097	SAMPLING STATION LOCATION, VERTICAL (FEET)
00098	SAMPLING STATION LOCATION, VERTICAL (METERS)
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
01300	OIL-GREASE (SEVERITY)
01305	DETERGENT SUDS (SEVERITY)
01310	GAS BUBBLES (SEVERITY)
01315	SLUDGE, FLOATING (SEVERITY)
01320	GARBAGE, FLOATING (SEVERITY)
01325	ALGAE, FLOATING MATS (SEVERITY)
01330	ODOR, ATMOSPHERIC (SEVERITY)
01331	TASTE (SEVERITY)
01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)
01340	FISH, DEAD (SEVERITY)
01345	DEBRIS, FLOATING (SEVERITY)
01350	TURBIDITY (SEVERITY)
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)
03595	BIOASSAY (96 HR), EFFLUENT, TOTAL CODE
03596	BIOASSAY (48 HR), EFFLUENT, TOTAL CODE
03597	BIOASSAY (24 HR), EFFLUENT, TOTAL CODE
03598	TOXICITY, EFFLUENT, TOTAL CODE
03599	TOXICITY, CHOICE OF SPECIES, EFFLUENT CODE
03600	TOXICITY, TROUT, EFFLUENT, TOTAL CODE
03601	TOXICITY, SAND DOLLAR, EFFLUENT CODE
03602	BIOCHEMICAL OXYGEN DEMAND, EFFLUENT, TOTAL CODE
03603	SOLIDS, TOTAL SUSPENDABLE, EFFLUENT, TOTAL CODE
03605	FLOW METER CALIBRATION, WATER CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis							
03717	ONCORHYNCHUS MYKISS, WATER CODE							
04117	ETHER LINE USED FOR COLLECTING SAMPLE CODE							
04160	IALOCARBONS, PURGEABLE, SCAN, EFFLUENT CODE							
04161	HALOCARBONS, PURGEABLE, SCAN, SLUDGE CODE							
04162	AROMATIC, PURGEABLE, SCAN, EFFLUENT CODE							
04163	AROMATIC, PURGEABLE, SCAN, SLUDGE CODE							
04164	PHENOLIC, TOTAL, SCAN, EFFLUENT CODE							
04165	PHENOLIC, TOTAL, SCAN, SLUDGE CODE							
04166	PCB, TOTAL, SCAN, EFFLUENT CODE							
04167	PCB, TOTAL, SCAN, SLUDGE CODE							
04174	FREE LIQUIDS IN SEWAGE SLUDGE CODE							
34765	AVIAN NUMERICAL SPECIES CODE (BIRDS)							
34766	MAMMALIAN NUMERICAL SPECIES CODE							
34771	MACROPHYTE, INSTREAM, VISUAL SIGHTING CODE							
34773	ODOR, AMBIENT WATER CODE							
34774	FISH, INSTREAM, VISUAL SIGHTING CODE							
34775	STREAMBANK CHANNEL ALTERATIONS CODE							
34776	HYDRAULIC STRUCTURES, INSTREAM CODE							
34780	LAND USE, ADJACENT STREAM CODE							
34781	SAMPLE POINTS, # OF LONGTONL TRANSECTS, REACH CODE							
34782	STREAM STAGE TREND CODE							
34789	HABITATS, TYPES SAMPLED CODE							
45613	FLOATING SOLIDS/VISIBLE FOAM, VISUAL, YES=1, NO=0, CODE							
45614	SANITARY WASTE DISCHARGE ASSESSMENT, YES=1, NO=0, CODE							
45615	INTERMITTENT DISCHARGE ASSESSMENT, YES=1, NO=0,CODE							
46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)							
46478	EQUIPMENT INSPECTION, VISUAL CODE							
46486	TOXICITY,ACUTE 24HR(STATIC)CERIODAPHNIA (P/F) CODE							
47454	FLOW METER REVOLUTIONS NUMBER							

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis							
47455	LATITUDE, STARTING, OF A SAMPLE TOW DDMMSS							
47456	LONGITUDE, STARTING, OF A SAMPLE TOW DDDMMSS							
47457	ATITUDE, FINISHING, OF A SAMPLE TOW DDMMSS							
47458	LONGITUDE, FINISHING, OF A SAMPLE TOW DDDMMSS							
47459	LENGTH FREQUENCY NUMBER							
47461	TIME THAT THE EQUIPMENT WAS SAMPLING MINUTES							
47476	DIRECTION OF TOW IN RELATION TO CURRENT NUM CODE							
50044	HYDROGRAPH LIMB, 1BASE, 2RISING, 3PEAK, 4FALLING, CODE							
61390	DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE							
61391	DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE							
61392	DIATOMS, THIRD DOMINANT SPECIES OF UNITS - CODE							
61393	DIATOMS, FOURTH DOMINANT SPECIES OF UNITS - CODE							
70220	WAVE DIRECTION (WMO CODES 0885 + 0887)							
70222	WAVE HEIGHT (WMO CODE 1555)							
70223	WAVE PERIOD (WMO CODE 3155)							
71090	BIVALVE SPECIES CODE							
71500	EQUITABILITY INDEX,BENTHIC MACROINVER CODE							
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)							
72001	DEPTH, TOTAL OF HOLE (FT BELOW LAND SURFACE DATUM)							
72002	DEPTH TO TOP OF WATER-BEARING ZONE SAMPLED (FT)							
72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)							
72004	PUMP OR FLOW PERIOD PRIOR TO SAMPLING MINUTES							
72005	SAMPLE SOURCE CODE (BM WELL DATA)							
72006	SAMPLING CONDITION CODE (BM WELL DATA)							
72007	FORMATION NAME CODE (BM WELL DATA)							
72017	SERIES CODE (BM WELL DATA)							
72018	SYSTEM CODE (BM WELL DATA)							
72111	DIRECT READOUT GROUND STATN TRANSMIT EROR CODE NUM							
74054	FECAL STREPTOCOCCI, GENERAL (PERMIT)							

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis							
74055	FECAL COLIFORM, GENERAL (PERMIT)							
80889	ACTIVATED SLUDGE PROCESS MODIFICATION CODE							
81024	ORAINAGE AREA IN SQUARE MILES (SQ. MI.)							
81637	SHELLFISH SPECIES NUMERIC CODE							
82289	LAGOON OBSERVATION, VISUAL, Y=YES N=NO CODE							
82398	SAMPLING METHOD (CODES)							
82524	STORAGE COEFFICIENT NUMERICAL CODE							
82923	ATMOSPHERIC DEPOSITION TYPE, WET CODE							
83205	ATMOSPHERIC DEPOSITION TYPE, BULK CODE							
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)							
84001	AQUIFER NAME CODE (SEE USGS CATALOG)							
84004	LAKE TYPE ILLINOIS CLASSIFICATION SYSTEM							
84007	ANATOMY ALPHA CODE							
84008	LIFE STYLE/HABITAT OF THE INDIVIDUALS IN THE SAMPLE							
84009	SHELLFISH SPECIES ALPHANUMERIC CODE							
84014	SPECIES SEX CODE							
84030	CLOUD AMOUNT ALPHA WEATHER CODES							
84031	PHYSICAL WEATHER ALPHA WEATHER CODES							
84032	STREAM CONDITION ALPHA WEATHER CODES							
84066	OIL AND GREASE, VISUAL, ALPHA-NUMERIC CODE							
84068	SERIES CODE ALPHA-NUMERIC CODE							
84069	FORMATION CODE ALPHA-NUMERIC CODE							
84070	METHOD OF TESTING WELL YIELD ALPHA-NUMERIC CODE							
84071	WATER LEVEL MEASUREMENT CONDITIONS ALPHA-NUM CODE							
84072	WATER LEVEL MEASUREMENT METHOD ALPHA-NUMERIC CODE							
84078	GIARDIA LAMBLIA, 2HSO4 OR SUC GRAD, MICRO, CODE							
84079	BACTERIA, CELLUOLYTIC, AEROBIC-ANAEROBIC, RT 5-7, CODE							
84080	BACTERIA, HYDROCARBONOCLASTIC, SHAKE INC 32C/WK, CODE							
84081	YERSINIA ENTEROCOLITICA, SB BROTH, MAC AGAR,22C, CODE							

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis							
84082	SALMONELLA/SHIGELLA, QUANT OR QUAL, HVF OR SWAB, CODE							
84085	ORGANICS, VOLATILE, DETECTED, NUMERIC CODE, CODE							
84086	MACROINVERTEBRATE SPECIES NUMERIC CODE							
84087	MACROINVERTEBRATE HABITAT CODE							
84088	BIOLOGY 1 MACROINVERTEBRATE CODE							
84089	BIOLOGY 2 MACROINVERTEBRATE CODE							
84094	PHYTOPLANKTON SPECIES CODE, NUMERIC							
84095	PHYTOPLANKTON SPECIES CODE, ALPHA							
84096	SEVERITY OF NON-PLANKTON ALGAE-MAT COVERAGE CODE							
84097	LAGOON MOUTH CONDITION CODE							
84098	COLOR OF NON-PLANKTONIC ALGAE CODE							
84099	WATER - RELATIVE WATER LEVEL CODE							
84100	SEX(1-MALE,2-FEMALE,3-MIXED,4-UNKNOWN) NUM CODE							
84101	METAFORM, BENTHIC, ADULT(A), PUPAE(P), LARVAE(L) CODE							
84105	OIL-SEPARATOR OBSERVATION ASSESS (0=DID NOT,1=DID)							
84106	EVAPORAT/BED OBS ASSESS (0=DID NOT LOOK, 1=DID LOOK)							
84107	AREA INSPECTION, VISUAL (0=DID NOT, 1=DID) CODE							
84108	DRAIN FIELD INSPECTION ASSESS (0=DID NOT, 1=DID) CODE							
84109	SLUDGE BUILD-UP IN WATER (0=DID NOT OBS, 1=OBS) CODE							
84110	POND OBSERVATION ASSESS WATER (0=DID NOT, 1=DID) CODE							
84111	LITHOLOGIC MODIFIER CODE							
84113	WELL INTAKE FINISH CODE							
84114	WELL CASING MATERIAL CODE							
84115	TYPE OF MATERIAL FROM WHICH OPENING IS MADE CODE							
84116	DRILLING FLUID CODE							
84117	TYPE OF SURFACE SEAL CODE							
84118	METHOD OF DEVELOPMENT CODE							
84120	PACKING MATERIAL CODE							
84124	METHOD OF EVACUTAION CODE							

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis							
84125	METHOD OF WATER-LEVEL MEASUREMENT CODE							
84130	OUTFALL OBSERVATION, VISUAL, Y=YES N=NO CODE							
84131	SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE							
84132	STREAMBANK, VEGETATIVE STABILITY RATING CODE							
84133	STREAMBANK, STABILITY (BANK EROSION) RATING CODE							
84134	PARTICLES, DEGREE SURROUNDED BY FINE SEDIMENT, CODE							
84135	STREAMSIDE, (SHORELINE) COVER RATING CODE							
84136	CANOPY TYPE CODE							
84137	CHANNEL STABILITY RATING CODE (E,G,F,P) CODE							
84138	COLIFORM, TOTAL, WATER, WHOLE, MPN, PRES=1, ABSNT=2, CODE							
84139	ENTEROBACTER AGGLOMERANS, WTR, MF, PRES=1, ABSNT=2, CODE							
84140	KLEBSIELLA PNEUMONIAE, WTR, WH, MF, PRES=1, ABSNT=2, CODE							
84143	WELL, PURGING CONDITION CODE							
84144	WELL, SELECTION CRITERIA CODE							
84145	PROJECT COMPONENT CODE							
84146	LAND USE, PREDOMINANT, WITHIN 100 FT OF WELL, CODE							
84147	LAND USE, PREDOMINANT, 1/4 MI.RADIUS OF WELL, CODE							
84148	LAND USE, PREDMNT., FRAC., WITHIN 1/4 MI OF WELL, CODE							
84149	LAND USE, CHANGE, LAST 10 YRS, WITHIN 1/4MI WELL, CODE							
84150	HABITAT QUALITY INDEX RATING CODE							
84151	AQUATIC LIFE, USE CLASSES CODE							
84152	STREAM, STAGE CLASS CODE							
84153	STREAMBANKS, GRAZING DAMAGE CODE							
84154	CHANNEL, MAJOR ALTERATIONS CODE							
84155	RIFFLE/RUNS, OCCURRENCE CODE							
84156	POOL, DESCRIPTION CODE							
84157	SANDBARS, LARGE, OCCURRENCE CODE							
84158	LAND USE, NEAR STREAM, PREDOMINANT CODE							
84159	STREAM,COVER (INSTREAM SHELTER FOR ADULT FISH), CODE							

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis							
84160	STREAM, DEGRADATION RATING CODE							
84161	TREAM, ORDER CODE							
84162	AND RESOURCE AREA CODE							
84163	FLOW, STREAM, CLASSIFICATION CODE							
84165	DISCHARGE EVENT OBSERVATION, YES=1 NO=0, CODE							
84166	STORM HYDROGRAPH, DIRECTION, (RISE,FALL), CODE							
84167	MICROSCOPIC EXAMINATION CODE							
84168	AVIAN SPECIES ALPHA CODE (BIRDS)							
84169	MAMMALIAN ALPHA SPECIES CODE							
84170	ALPHA AGE TEXT CODE							
84200	LATITUDE/LONGITUDE COORDINATES OF WELL, METHOD CODE							
84201	NATIONAL REFERENCE DATUM, ALTITUDE(VERTICAL) CODE							
84202	ALTITUDE METHOD CODE							
85000	STREAM MILE, ACTUAL MILES							
85014	HABITAT, 1970 ACRES THIS TYPE FOR THIS STATION							
85015	HAB., ESTIMATED ACRES THIS TYPE THIS STATION							
85016	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 1990							
85017	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 2000							
85018	TYPE CODES: 1=CLEAR CUT/2=SELECT CUT/3=RNGE DEVLP							
85019	ACRES, NO. ALTERED FROM 1965-1970 (0-5 YEARS OLD)							
85020	ACRES, NO. ALTERED 1960-1965 (5-10 YEARS OLD)							
85021	ACRES, NO. ALTERED 1955-1960 (10-15 YEARS OLD)							
85022	ACRES, NO. ALTERED 1950-1955 (15-20 YEARS OLD)							
85023	ACRES, NO. ALTERED BEFORE 1950 (20+ YEARS OLD)							
85024	ACRES,PREDICTED YRLY.AVE.TO BE ALTERED IN FUTURE							
85025	LANDOWNERS, CODES FOR ALL IN STATE OF OREGON							
85026	ACRES, CURRENT OWNED THIS LANDOWNER THIS STATION							
85027	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1980							
85028	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1990							

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis							
85029	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 2000							
85030	LAND USES, CODES FOR ALL IN STATE OF OREGON							
85031	ACRES, CURRENT DEDICATED TO THIS USE THIS STATION							
85032	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1980							
85033	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1990							
85034	ACRES, ESTM. DEDICTD TO THIS USE BY YR.2000STA.							
85035	HAB., INDICATED ANIMAL USES THIS TYPE IN WINTER							
85036	HAB., INDICATED ANIMAL USES THIS TYPE IN SPRING							
85037	HAB., INDICATED ANIMAL USES THIS TYPE IN SUMMER							
85038	HAB., INDICATED ANIMAL USES THIS TYPE IN FALL							
85039	HAB., INDICATED ANML USES THIS TYPE FOR WINTERING							
85040	HAB., INDICATED ANML USES THIS TYPE FOR FEEDING							
85041	HAB., INDICATED ANML USES TYPE FOR REARING YOUNG							
85042	HAB., INDICATED BIRD USES THIS TYPE FOR NESTING							
85043	HAB., INDICATED ANML USES THIS TYPE FOR SHELTER							
85044	HAB., INDICATED ANML USES THIS TYPE FOR REST AREA							
85045	ANML, SHOWS PRESENCE/ABSNC OF COMMENTS ON THIS ANML							
85046	HAB.,ACRES OCCUPIED BY THIS ANML THIS UNIT & CO.							
85050	ANIMALS ARE NOT PRESENT THIS STATION							
85051	ANIMALS, ONLY A FEW ARE PRESENT THIS STATION							
85052	ANIMALS COMMONLY SEEN; USE MODERATE THIS STATION							
85053	ANIMALS FREQUENTLY SEEN; USE HEAVY THIS STATION							
85070	OWNERSHIP (.1) AND ACCESS (.2) BY YEAR							
85071	PRIVATE OWNERSHIP AND ACCESS MILEAGE							
85072	FEDERAL OWNERSHIP AND ACCESS MILEAGE							
85073	STATE OWNERSHIP AND ACCESS MILEAGE							
85074	COUNTY OWNERSHIP AND ACCESS MILEAGE							
85075	CITY OWNERSHIP AND ACCESS MILEAGE							
85076	WATER YEAR DATA REFERS TO							

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis							
85077	CALENDAR YEAR DATA REFERS TO							
85088	MONTHS POLLUTION IS A PROBLEM JAN THRU JUNE							
85089	MONTHS POLLUTION IS A PROBLEM JULY TO DECEMBER							
85090	MAN-CAUSED CHANNEL CHANGE IN MILES							
85091	STREAM BANK HABITAT DESTROYED IN MILES							
85092	STREAMBED SILTED IN MILES							
85093	TURBIDITY PROBLEM IN MILES							
85094	SEVERITY: 1=ELIMINATES 2=INTERFERES 3=NO PROBLEM							
85095	DURATION OF TURBIDITY PROBLEM IN MONTHS							
85096	SEASON OF NATURAL DRY CHANNEL 1=SP 2=SU 3=F 4=W							
85097	NATURAL DRY CHANNEL IN MILES							
85098	MAN-CAUSED DRY CHANNEL SEASON 1=SP 2=SU 3=F 4=W							
85099	MAN-CAUSED DRY CHANNEL IN MILES							
85100	YEAR BARRIER IS PRESENT							
85101	NUMBER OF NATURAL BARRIERS							
85102	MILES BLOCKED BY NATURAL BARRIERS							
85103	NUMBER OF NATURAL BARRIERS TO BE REMOVED							
85104	NUMBER OF DAMS AND MAN CAUSED OBSTRUCTIONS							
85105	MILES BLOCKED BY DAMS OR MAN CAUSED OBSTRUCTIONS							
85106	NUMBER OF DAMS TO BE ALTERED							
85107	MILES OF STREAM OCCUPIED BY IMPOUNDMENT							
85108	LOWER END OF SECTION COVERED BY THIS FORM							
85109	UPPER END OF SECTION COVERED BY THIS FORM							
85110	LOWER LIMIT THIS SPECIES THIS FORM BY RIVER MILE							
85111	UPPER LIMIT THIS SPECIES THIS FORM BY RIVER MILE							
85112	STREAM SURVEY:1=COMPLETE 2=INCOMPLETE 3=NONE							
85113	ABUNDANCE: 1=FSHWY/TAG&R 2=SURVEY 3=EST PLUS 4=EST							
85114	ABUNDANCE: N=S&ST 1=ABUNDANT 4=SCARCE RGH FSH 3=SCARCE							
85116	SQUARE YARDS OF SPAWNING AREA IN 1970							

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis							
85117	SQUARE YARDS OF SPAWNING AREA IN 1980							
85118	SQUARE YARDS OF SPAWNING AREA IN 1990							
85119	SQUARE YARDS OF SPAWNING AREA IN 2000							
85120	MILES OF REARING AREA IN 1970							
85121	MILES OF REARING AREA IN 1980							
85122	MILES OF REARING AREA IN 1990							
85123	MILES OF REARING AREA IN 2000							
85124	CATCH BY SPORT ANGLING IN 1970							
85125	RECREATION DAYS SPENT ANGLING IN 1970							
85126	RECREATION DAYS SPENT ANGLING IN 1980							
85127	RECREATION DAYS SPENT ANGLING IN 1990							
85128	RECREATION DAYS SPENT ANGLING IN 2000							
85129	CONTRIBUTION TO COMMERCIAL CATCH IN 1970							
85130	PERCENT OF TOTAL FISHING DONE FROM BOAT IN 1970							
85131	PERCENT OF TOTAL FISHING DONE FROM BANK IN 1970							
85132	PERCENT OF TOTAL FISHING DONE WITH LURE IN 1970							
85133	PERCENT OF TOTAL FISHING DONE WITH BAIT IN 1970							
85134	PERCENT OF TOTAL FISHING DONE WITH A FLY IN 1970							
85146	YEAR THIS FACTOR HAS A LIMITING EFFECT							
85157	MAN DAYS OF WATER SKIING							
85158	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY							
85159	MAN DAYS OF BOATING OTHER THAN ANGLING							
85160	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY							
85161	MAN DAYS OF SWIMMING							
85162	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY							
85163	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NOT PRESENT							
85165	NUMBER OF MONTHS SUSPENDED SOLIDS ARE A PROBLEM							
85167	NUMBER OF MONTHS PLANKTON IS A PROBLEM							
85168	1=ELIMINATE PROD 2=REDUCE 3=NO INTER. 4=NOT PRES							

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis							
85169	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB							
85170	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB							
85171	=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB							
85172	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB							
85173	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB							
85174	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB							
85175	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB							
85176	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB							
85177	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB							
85178	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB							
85179	YEAR THIS NUMBER OF FACILITIES PRESENT							
85180	NUMBER OF BOAT RAMPS							
85181	NUMBER OF MOORAGES							
85182	NUMBER OF PICNIC AREAS							
85183	NUMBER OF CAMP AREAS							
85184	NUMBER OF RESORTS							
85185	YEAR THIS ZONED AREA PRESENT							
85186	ACRES SET ASIDE FOR OTHER BOATING							
85187	ACRES SET ASIDE FOR WATER SKIING							
85188	MILES OF SHORE LOST TO ACCESS BY HOME SITES							
85189	TOTAL MILES OF SHORELINE							
85193	WILL RECR BE INC BY RELEASE OF FINGERL 0=NO 1=YES							
85195	CATCH AND RECREATION ESTIMATE 1=BEST 4=POOREST							
85333	PRECIPITATION-SAMPLE COLLECTION TIME-CODE- NES							
85538	GAMMA SCAN DATE (YR,MO,DAY)							
85539	DATE OF REPORT (YR,MO,DAY)							
85658	TIME NIGHT CO2 HR							
85661	TIME, INTERVAL DAY CO2 HR							

Appendix F

National EPA Water Quality Criteria Summary¹

The following table presents the national water quality criteria that were used to assess water quality data on a station-by-station basis and within the entire study area. Criteria are, for the most part, maximum values (except for dissolved oxygen, pH, and as noted). Criteria exist in any of four categories: Fresh Acute, Drinking Water, Marine Acute, and Other. Acute criteria are the highest 1-hour average concentrations which should not result in unacceptable impacts to aquatic organisms in either fresh or marine waters, respectively. The Drinking Water criteria are intended for human consumption; while the Other criteria represents National Park Service or other concerns. Parameters are listed in ascending order by STORET code. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to obtain the criteria for all parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	00070				50!	TURBIDITY, JACKSON CANDLE UNITS	JTU	Physical
	00076				50!	TURBIDITY, HACH TURBIDIMETER, FORMAZIN TUR. UNITS	FTU	Physical
14808798	00154		250 ^s			SULFATE (AS S) WHOLE WATER	MG/L	General Inorganic
7782447	00299				4.0 ^u	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	MG/L	Dissolved Oxygen
7782447	00300				4.0 ^u	OXYGEN, DISSOLVED	MG/L	Dissolved Oxygen
	00400				≤6.5, ≥9.0 [#]	РН	SU	Physical
	00403				≤6.5, ≥9.0 [#]	PH, LAB	SU	Physical
	00406				≤6.5, ≥9.0 [#]	PH, FIELD	SU	Physical

¹Sources: (1) U.S. Environmental Protection Agency, Quality Criteria for Water 1995, Final Draft; (2) U.S. Environmental Protection Agency, 40 CFR 141 - National Primary Drinking Water Regulations, and 40 CFR 143 - National Secondary Drinking Water Regulations, July 1, 1994; and (3) Others as Noted in Footnotes.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
471341	00409				<200=	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS	UEQ/L	General Inorganic
17778880	00613		1			NITRITE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00615		1			NITRITE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00618		10			NITRATE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00620		10			NITRATE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00628		10			NITRITE + NITRATE, SUSPENDED AS N	MG/L	Nitrogen
17778880	00630		10			NITRITE PLUS NITRATE, TOTAL 1 DET.	MG/L	Nitrogen
17778880	00631		10			NITRITE PLUS NITRATE, DISSOLVED 1 DET.	MG/L	Nitrogen
57125	00718	22	200	1.0		CYANIDE, WEAK ACID, DISSOCIABLE, WATER, WHOLE	UG/L	General Inorganic
57125	00719	22	200	1.0		CYANIDE, FREE,IN WATER&WASTEWATERS, HBG METHOD	UG/L	General Inorganic
57125	00720	0.022	0.2	0.001		CYANIDE, TOTAL	MG/L	General Inorganic
57125	00722	0.022	0.2	0.001		CYANIDE, FREE (AMENABLE TO CHLORINATION)	MG/L	General Inorganic
57125	00723	22	200	1.0		CYANIDE, DISSOLVED STD METHOD	UG/L	General Inorganic
57125	00724	22	200	1.0		CYANIDE COMPLEXED TO A RANGE OF COMPNDS, WATER	UG/L	General Inorganic
16887006	00940	860	250 ^s			CHLORIDE,TOTAL IN WATER	MG/L	General Inorganic
16887006	00941	860	250 ^s			CHLORIDE, DISSOLVED IN WATER	MG/L	General Inorganic
14808798	00945		250 ^s			SULFATE, TOTAL (AS SO4)	MG/L	General Inorganic
14808798	00946		250 ^s			SULFATE, DISSOLVED (AS SO4)	MG/L	General Inorganic
1332214	00948		7000000		_	ASBESTOS, WHOLE SAMPLE	CNT/L	General Inorganic
16984488	00950		4.0			FLUORIDE, DISSOLVED AS F	MG/L	General Inorganic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
16984488	00951		4.0			FLUORIDE, TOTAL AS F	MG/L	General Inorganic
7782414	00953		4000			FLUORINE, TOTAL	UG/L	General Inorganic
7440382	00978	360	50	69		ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	UG/L	Metal
7782492	00981	20	50	300		SELENIUM, TOTAL RECOVERABLE IN WATER AS SE	UG/L	Metal
7440280	00982	1400*	2.0	2130*		THALLIUM, TOTAL RECOVERABLE IN WATER AS TL	UG/L	Metal
7782492	00990	20	50	300		SELENITE, TOTAL RECOVERABLE INORGANIC	UG/L	Metal
7440382	00991	360	50	69		ARSENIC, TOTAL RECOVERABLE TRIVALENT INORGANIC	UG/L	Metal
7440382	00995	360	50	69		ARSENIC, INORGANIC DISS	UG/L	Metal
7440382	00996	360	50	69		ARSENIC, INORGANIC SUSP	UG/L	Metal
7440382	00997	360	50	69		ARSENIC, INORGANIC TOT	UG/L	Metal
7440417	00998	130*	4.0			BERYLLIUM,TOTAL RECOVERABLE IN WATER AS BE	UG/L	Metal
7440382	01000	360	50	69		ARSENIC, DISSOLVED	UG/L	Metal
7440382	01001	360	50	69		ARSENIC, SUSPENDED	UG/L	Metal
7440382	01002	360	50	69		ARSENIC, TOTAL	UG/L	Metal
7440393	01005		2000			BARIUM, DISSOLVED	UG/L	Metal
7440393	01006		2000			BARIUM, SUSPENDED	UG/L	Metal
7440393	01007		2000			BARIUM, TOTAL	UG/L	Metal
7440393	01009		2000			BARIUM,TOTAL RECOVERABLE IN WATER AS BA	UG/L	Metal
7440417	01010	130*	4.0			BERYLLIUM, DISSOLVED	UG/L	Metal
7440417	01011	130*	4.0			BERYLLIUM, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440417	01012	130*	4.0			BERYLLIUM, TOTAL	UG/L	Metal
7440439	01025	3.9 ⁺	5.0	43		CADMIUM, DISSOLVED	UG/L	Metal
7440439	01026	3.9 ⁺	5.0	43		CADMIUM, SUSPENDED	UG/L	Metal
7440439	01027	3.9 ⁺	5.0	43		CADMIUM, TOTAL	UG/L	Metal
7440473	01030		100			CHROMIUM, DISSOLVED	UG/L	Metal
7440473	01031		100			CHROMIUM, SUSPENDED	UG/L	Metal
7440473	01032	16	100	1100		CHROMIUM, HEXAVALENT	UG/L	Metal
16065831	01033	1700 ⁺	100	10300*		CHROMIUM, TRI-VAL	UG/L	Metal
7440473	01034		100			CHROMIUM, TOTAL	UG/L	Metal
7440508	01040	18 ⁺	1300 ^a	2.9		COPPER, DISSOLVED	UG/L	Metal
7440508	01041	18 ⁺	1300 ^a	2.9		COPPER, SUSPENDED	UG/L	Metal
7440508	01042	18+	1300 ^a	2.9		COPPER, TOTAL	UG/L	Metal
7439921	01049	82+	15ª	220		LEAD, DISSOLVED	UG/L	Metal
7439921	01050	82+	15ª	220		LEAD, SUSPENDED	UG/L	Metal
7439921	01051	82 ⁺	15ª	220		LEAD, TOTAL	UG/L	Metal
7440280	01057	1400*	2.0	2130*		THALLIUM, DISSOLVED	UG/L	Metal
7440280	01058	1400*	2.0	2130*		THALLIUM, SUSPENDED	UG/L	Metal
7440280	01059	1400*	2.0	2130*		THALLIUM, TOTAL	UG/L	Metal
7440020	01065	1400 ⁺	100	75		NICKEL, DISSOLVED	UG/L	Metal
7440020	01066	1400 ⁺	100	75		NICKEL, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	01067	1400 ⁺	100	75		NICKEL, TOTAL	UG/L	Metal
7440020	01074	1400 ⁺	100	75		NICKEL, TOTAL RECOVERABLE IN WATER AS NI	UG/L	Metal
7440224	01075	4.1+	100 ^s	0.12		SILVER, DISSOLVED	UG/L	Metal
7440224	01076	4.1+	100 ^s	0.12		SILVER, SUSPENDED	UG/L	Metal
7440224	01077	4.1+	100 ^s	0.12		SILVER, TOTAL	UG/L	Metal
7440224	01079	4.1+	100 ^s	0.12		SILVER, TOTAL RECOVERABLE IN WATER AS AG	UG/L	Metal
7440508	01089	0.018+	1.3ª	0.0029		COPPER AS SUSPENDED BLACK OXIDE IN WATER	MG/L	General Inorganic
7440666	01090	120+	5000 ^s	95		ZINC, DISSOLVED	UG/L	Metal
7440666	01091	120+	5000s	95		ZINC, SUSPENDED	UG/L	Metal
7440666	01092	120+	5000 ^s	95		ZINC, TOTAL	UG/L	Metal
7440666	01094	120+	5000s	95		ZINC, TOTAL RECOVERABLE IN WATER AS ZN	UG/L	Metal
7440360	01095	88 ^p	6.0	1500 ^p		ANTIMONY, DISSOLVED	UG/L	Metal
7440360	01096	88 ^p	6.0	1500 ^p		ANTIMONY, SUSPENDED	UG/L	Metal
7440360	01097	88 ^p	6.0	1500 ^p		ANTIMONY, TOTAL	UG/L	Metal
7440439	01113	3.9 ⁺	5.0	43		CADMIUM, TOTAL RECOVERABLE IN WATER AS CD	UG/L	Metal
7439921	01114	82+	15ª	220		LEAD, TOTAL RECOVERABLE IN WATER AS PB	UG/L	Metal
7440473	01118		100			CHROMIUM TOTAL RECOVERABLE IN WATER AS CR	UG/L	Metal
7440508	01119	18+	1300ª	2.9		COPPER, TOTAL RECOVERABLE IN WATER AS CU	UG/L	Metal
7440280	01124	1400*	2.0	2130*		THALLIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
7440280	01128	1400*	2.0	2130*		THALLIUM, TOTAL RECOVERABLE <95%	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	01145	20	50	300		SELENIUM, DISSOLVED	UG/L	Metal
7782492	01146	20	50	300		SELENIUM, SUSPENDED	UG/L	Metal
7782492	01147	20	50	300		SELENIUM, TOTAL	UG/L	Metal
7782492	01167	20	50	300		SELENIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
18540299	01220	16	100	1100		CHROMIUM, HEXAVALENT, DISSOLVED	UG/L	Metal
7440360	01268	88 ^p	6.0	1500 ^p		ANTIMONY (SB), WATER, TOTAL RECOVERABLE	UG/L	Metal
57125	01291	22	200	1.0		CYANIDE, FILTERABLE, TOTAL IN WATER	UG/L	General Inorganic
7440666	01303	0.120+	5.0 ^s	0.095		ZINC, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440224	01304	0.0041+	0.1s	0.00012		SILVER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440508	01306	0.018+	1.3ª	0.0029		COPPER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
18540299	01307	0.016	0.1	1.1		CHROMIUM, HEXAVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7440382	01309	0.36	0.05	0.069		ARSENIC, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440393	01311		2.0			BARIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440417	01312	0.13*	0.004			BERYLLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440439	01313	0.0039+	0.005	0.043		CADMIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
16065831	01314	1.7+	0.1	10.3*		CHROMIUM, TRIVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7439921	01318	0.082+	0.015 ^a	0.220		LEAD, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7439976	01321	0.0024	0.002	0.0021		MERCURY, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440020	01322	1.4+	0.1	0.075		NICKEL, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7782492	01323	0.020	0.050	0.300		SELENIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440280	01324	1.4*	0.002	2.13*		THALLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440611	01326		0.020 ^c			URANIUM, POTENTIALLY DISSOLVED, WATER	MG/L	Metal
7440224	01523	4.1+	100 ^s	0.12		SILVER, IONIC	UG/L	Metal
50328	03648		0.2			BENZO (A) PYRENE, LIQUID FRACTION, ELUTRIATE	UG/L	General Organic
122349	04035		4.0			SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE	UG/L	Pesticide
10028178	04124		20 ^r			TRITIUM, TOTAL, WATER	PC/ML	Radiological
10028178	07000		20000°			TRITIUM, TOTAL	PC/L	Radiological
10028178	07005		20000°			TRITIUM, DISSOLVED	PC/L	Radiological
10028178	07010		20000°			TRITIUM, SUSPENDED	PC/L	Radiological
	09501		5.0			RADIUM 226, TOTAL	PC/L	Radiological
	09503		5.0			RADIUM 226, DISSOLVED	PC/L	Radiological
	09505		5.0			RADIUM 226, SUSPENDED	PC/L	Radiological
	11500		5.0			RADIUM 226 + RADIUM 228, DISSOLVED	PC/L	Radiological
	11501		5.0			RADIUM 228, TOTAL	PC/L	Radiological
	11503		5.0			RADIUM 226 + RADIUM 228, TOTAL	PC/L	Radiological
10098972	13501		8.0 ^r			STRONTIUM 90, TOTAL	PC/L	Radiological
10098972	13503		8.0 ^r			STRONTIUM 90, DISSOLVED	PC/L	Radiological
10098972	13505		8.0 ^r			STRONTIUM 90, SUSPENDED	PC/L	Radiological
7782492	22675	20	50	300		SELENIUM, DISSOLVED ORGANIC	UG/L	Metal
7782492	22676	20	50	300		SELENIUM, HEXAVALENT, DISSOLVED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	22677	20	50	300		SELENIUM, TETRAVALENT, DISSOLVED	UG/L	Metal
7440382	22678	360	50	69		ARSENIC, DISSOLVED ORGANIC	UG/L	Metal
7440382	22679	850 [*]	50	2319*		ARSENIC, PENTAVALENT, DISSOLVED	UG/L	Metal
7440382	22680	360	50	69		ARSENIC, TRIVALENT, DISSOLVED	UG/L	Metal
7440611	22703		20°			URANIUM, NATURAL DISSOLVED	UG/L	Metal
7440611	22705		20°			URANIUM, NATURAL SUSPENDED	UG/L	Metal
7440611	22706		20°			URANIUM, TOTAL AS U308	UG/L	Metal
7440611	22708		0.020°			URANIUM, NATURAL, TOTAL	MG/L	Radiological
7440611	28011		20°			URANIUM, NATURAL, TOTAL	UG/L	Radiological
88857	30191		7.0			DINOSEB, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
75990	30200		200			DALAPON, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
106934	30203		0.05			ETHANE, 1,2-DIBROMO-, WATER, WHOLE, RECOVERABLE	UG/L	Pesticide
	31501		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	CFU/100ML	Bacteriological
	31503		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MEMBRANE FILTER, DELAY. M-ENDO	CFU/100ML	Bacteriological
	31504		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. LES-ENDO	CFU/100ML	Bacteriological
	31505		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506)	MPN/100ML	Bacteriological
	31506		1.0°		1000 ^b	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31507		1.0°		1000 ^b	COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508)	MPN/100ML	Bacteriological
	31508		1.0 ⁿ		1000 ^b	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31613				200^	FECAL COLIFORM, MEMBRANE FILTER, AGAR	CFU/100ML	Bacteriological

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	31614				200^	FECAL COLIFORM, MPN, TUBE CONFIGURATION	MPN/100ML	Bacteriological
	31615				200^	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	MPN/100ML	Bacteriological
	31616				200^	FECAL COLIFORM, MEMBRANE FILTER, BROTH, 44.5C	CFU/100ML	Bacteriological
	31617				200^	FECAL COLIFORM, MPN, EIJKMAN, 44.5C (TUBE 31618)	MPN/100ML	Bacteriological
	31625				200^	FECAL COLIFORM, MF, M-FC, 0.7 UM	CFU/100ML	Bacteriological
	31648				126^	E. COLI, MTEC, MF	CFU/100ML	Bacteriological
	31649				33^	ENTEROCOCCI, ME, MF	CFU/100ML	Bacteriological
67663	32003	28900*	100 ^t			CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	UG/L	General Organic
67663	32005	28900*	100 ^t			CARBON CHLOROFORM EXTRACTABLES	UG/L	General Organic
67663	32021	28900*	100 ^t			CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	UG/L	General Organic
67663	32022	28900*	100 ^t			CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	UG/L	General Organic
75274	32101		100 ^t			BROMODICHLOROMETHANE, WHOLE WATER	UG/L	General Organic
56235	32102	35200*	5.0	50000*		CARBON TETRACHLORIDE, WHOLE WATER	UG/L	General Organic
107062	32103	118000*	5.0	113000*		1,2-DICHLOROETHANE,WHOLE WATER	UG/L	General Organic
75252	32104		100 ^t			BROMOFORM, WHOLE WATER	UG/L	General Organic
124481	32105		100 ^t			DIBROMOCHLOROMETHANE, WHOLE WATER	UG/L	General Organic
67663	32106	28900*	100 ^t			CHLOROFORM, WHOLE WATER	UG/L	General Organic
56235	32260	35.2*	0.005	50*		CARBON TETRACHLORIDE EXTRACTABLES	MG/L	General Organic
67663	32270	28.9*	0.1 ^t			CHLOROFORM EXTRACTABLES TOTAL	MG/L	General Organic
108883	34010	17500*	1000	6300*		TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
1330207	34020		10000			XYLENES IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic
83329	34205	1700*		970 [*]		ACENAPHTHENE, TOTAL	UG/L	General Organic
83329	34206	1700*		970*		ACENAPHTHENE, DISSOLVED	UG/L	General Organic
83329	34207	1700*		970*		ACENAPHTHENE, SUSPENDED	UG/L	General Organic
107028	34210	68*		55*		ACROLEIN, TOTAL	UG/L	Pesticide
107028	34211	68*		55*		ACROLEIN, DISSOLVED	UG/L	Pesticide
107028	34212	68*		55*		ACROLEIN, SUSPENDED	UG/L	Pesticide
107131	34215	7550*				ACRYLONITRILE, TOTAL	UG/L	General Organic
107131	34216	7550*				ACRYLONITRILE, DISSOLVED	UG/L	General Organic
107131	34217	7550*				ACRYLONITRILE, SUSPENDED	UG/L	General Organic
71432	34235	5300*	5.0	5100*		BENZENE, DISSOLVED	UG/L	General Organic
71432	34236	5300*	5.0	5100*		BENZENE, SUSPENDED	UG/L	General Organic
92875	34239	2500*				BENZIDINE, DISSOLVED	UG/L	General Organic
92875	34240	2500*				BENZIDINE, SUSPENDED	UG/L	General Organic
58899	34265	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA, DISSOLVED	UG/L	Pesticide
58899	34266	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA, SUSPENDED	UG/L	Pesticide
75252	34288		100 ^t			BROMOFORM, DISSOLVED	UG/L	General Organic
75252	34289		100 ^t			BROMOFORM, SUSPENDED	UG/L	General Organic
56235	34297	35200*	5.0	50000*		CARBON TETRACHLORIDE, DISSOLVED	UG/L	General Organic
56235	34298	35200*	5.0	50000*		CARBON TETRACHLORIDE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108907	34301		100			CHLOROBENZENE, TOTAL	UG/L	General Organic
108907	34302		100			CHLOROBENZENE, DISSOLVED	UG/L	General Organic
108907	34303		100			CHLOROBENZENE, SUSPENDED	UG/L	General Organic
124481	34306		100 ^t			CHLORODIBROMOMETHANE, TOTAL	UG/L	General Organic
124481	34307		100 ^t			CHLORODIBROMOMETHANE, DISSOLVED	UG/L	General Organic
124481	34308		100 ^t			CHLORODIBROMOMETHANE, SUSPENDED	UG/L	General Organic
67663	34316	28900*	100 ^t			CHLOROFORM, DISSOLVED	UG/L	General Organic
67663	34317	28900*	100 ^t			CHLOROFORM, SUSPENDED	UG/L	General Organic
57125	34325	0.022	0.2	0.001		CYANIDE, SUSPENDED	MG/L	General Inorganic
75274	34328		100 ^t			DICHLOROBROMOMETHANE, DISSOLVED	UG/L	General Organic
75274	34329		100 ^t			DICHLOROBROMOMETHANE, SUSPENDED	UG/L	General Organic
122667	34346	270*				1,2-DIPHENYLHYDRAZINE, TOTAL	UG/L	General Organic
122667	34347	270*				1,2-DIPHENYLHYDRAZINE, DISSOLVED	UG/L	General Organic
122667	34348	270*				1,2-DIPHENYLHYDRAZINE, SUSPENDED	UG/L	General Organic
33213659	34356	0.22		0.034		ENDOSULFAN, BETA, TOTAL	UG/L	Pesticide
33213659	34357	0.22		0.034		ENDOSULFAN, BETA, DISSOLVED	UG/L	Pesticide
33213659	34358	0.22		0.034		ENDOSULFAN, BETA, SUSPENDED	UG/L	Pesticide
959988	34361	0.22		0.034	_	ENDOSULFAN, ALPHA, TOTAL	UG/L	Pesticide
959988	34362	0.22		0.034		ENDOSULFAN, ALPHA, DISSOLVED	UG/L	Pesticide
959988	34363	0.22		0.034		ENDOSULFAN, ALPHA, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
100414	34371	32000*	700	430*		ETHYLBENZENE, TOTAL	UG/L	General Organic
100414	34372	32000*	700	430*		ETHYLBENZENE, DISSOLVED	UG/L	General Organic
100414	34373	32000*	700	430*		ETHYLBENZENE, SUSPENDED	UG/L	General Organic
206440	34376	3980 [*]		40*		FLUORANTHENE, TOTAL	UG/L	General Organic
206440	34377	3980*		40*		FLUORANTHENE, DISSOLVED	UG/L	General Organic
206440	34378	3980*		40*		FLUORANTHENE, SUSPENDED	UG/L	General Organic
77474	34386	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, TOTAL	UG/L	General Organic
77474	34387	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, DISSOLVED	UG/L	General Organic
77474	34388	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, SUSPENDED	UG/L	General Organic
87683	34391	90*		32*		HEXACHLOROBUTADIENE, TOTAL	UG/L	General Organic
87683	34392	90*		32*		HEXACHLOROBUTADIENE, DISSOLVED	UG/L	General Organic
87683	34393	90*		32*		HEXACHLOROBUTADIENE, SUSPENDED	UG/L	General Organic
67721	34396	980*		940*		HEXACHLOROETHANE, TOTAL	UG/L	General Organic
67721	34397	980*		940*		HEXACHLOROETHANE, DISSOLVED	UG/L	General Organic
67721	34398	980 [*]		940*		HEXACHLOROETHANE, SUSPENDED	UG/L	General Organic
118741	34401	6.0 ^p	1.0			HEXACHLOROBENZENE, DISSOLVED	UG/L	General Organic
118741	34402	6.0 ^p	1.0			HEXACHLOROBENZENE, SUSPENDED	UG/L	General Organic
193395	34403		0.40°			INDENO (1,2,3-CD) PYRENE, TOTAL	UG/L	General Organic
193395	34404		0.40°			INDENO (1,2,3-CD) PYRENE, DISSOLVED	UG/L	General Organic
193395	34405		0.40°			INDENO (1,2,3-CD) PYRENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
78591	34408	117000*		12900*		ISOPHORONE, TOTAL	UG/L	Pesticide
78591	34409	117000*		12900*		ISOPHORONE, DISSOLVED	UG/L	Pesticide
78591	34410	117000*		12900*		ISOPHORONE, SUSPENDED	UG/L	Pesticide
75092	34423		5.0			METHYLENE CHLORIDE, TOTAL	UG/L	General Organic
75092	34424		5.0			METHYLENE CHLORIDE, DISSOLVED	UG/L	General Organic
75092	34425		5.0			METHYLENE CHLORIDE, SUSPENDED	UG/L	General Organic
91203	34443	2300*		2350*		NAPHTHALENE, DISSOLVED	UG/L	General Organic
91203	34444	2300*		2350*		NAPHTHALENE, SUSPENDED	UG/L	General Organic
98953	34447	27000*		6680*		NITROBENZENE, TOTAL	UG/L	General Organic
98953	34448	27000*		6680*		NITROBENZENE, DISSOLVED	UG/L	General Organic
98953	34449	27000*		6680*		NITROBENZENE, SUSPENDED	UG/L	General Organic
59507	34452	30*				PARACHLOROMETA CRESOL, TOTAL	UG/L	General Organic
59507	34453	30*				PARACHLOROMETA CRESOL, DISSOLVED	UG/L	General Organic
59507	34454	30*				PARACHLOROMETA CRESOL, SUSPENDED	UG/L	General Organic
87865	34459	20***	1.0	13		PCP (PENTACHLOROPHENOL), DISSOLVED	UG/L	Pesticide
87865	34460	20***	1.0	13		PCP (PENTACHLOROPHENOL), SUSPENDED	UG/L	Pesticide
85018	34461	30 ^p		7.7 ^p	_	PHENANTHRENE, TOTAL	UG/L	General Organic
85018	34462	30 ^p		7.7 ^p	_	PHENANTHRENE, DISSOLVED	UG/L	General Organic
85018	34463	30 ^p		7.7 ^p		PHENANTHRENE, SUSPENDED	UG/L	General Organic
108952	34466	10200*		5800*		PHENOL, DISSOLVED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108952	34467	10200*		5800*		PHENOL, SUSPENDED	UG/L	General Organic
127184	34475	5280 [*]	5.0	10200*		TETRACHLOROETHYLENE, TOTAL	UG/L	General Organic
127184	34476	5280*	5.0	10200*		TETRACHLOROETHYLENE, DISSOLVED	UG/L	General Organic
127184	34477	5280 [*]	5.0	10200*		TETRACHLOROETHYLENE, SUSPENDED	UG/L	General Organic
108883	34481	17500*	1000	6300*		TOLUENE, DISSOLVED	UG/L	General Organic
108883	34482	17500*	1000	6300*		TOLUENE, SUSPENDED	UG/L	General Organic
79016	34485	45000*	5.0	2000*		TRICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
79016	34486	45000*	5.0	2000*		TRICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
75014	34493		2.0			VINYL CHLORIDE, DISSOLVED	UG/L	General Organic
75014	34494		2.0			VINYL CHLORIDE, SUSPENDED	UG/L	General Organic
75354	34501		7.0			1,1-DICHLOROETHYLENE, TOTAL	UG/L	General Organic
75354	34502		7.0			1,1-DICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
75354	34503		7.0			1,1-DICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
71556	34506		200	31200*		1,1,1-TRICHLOROETHANE, TOTAL	UG/L	General Organic
71556	34507		200	31200*		1,1,1-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
71556	34508		200	31200*		1,1,1-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79005	34511		5.0			1,1,2-TRICHLOROETHANE, TOTAL	UG/L	General Organic
79005	34512		5.0			1,1,2-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
79005	34513		5.0			1,1,2-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79345	34516			9020*		1,1,2,2-TETRACHLOROETHANE, TOTAL	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
79345	34517			9020*		1,1,2,2-TETRACHLOROETHANE, DISSOLVED	UG/L	General Organic
79345	34518			9020*		1,1,2,2-TETRACHLOROETHANE, SUSPENDED	UG/L	General Organic
107062	34531	118000*	5.0	113000*		1,2-DICHLOROETHANE, TOTAL	UG/L	General Organic
107062	34532	118000*	5.0	113000*		1,2-DICHLOROETHANE, DISSOLVED	UG/L	General Organic
107062	34533	118000*	5.0	113000*		1,2-DICHLOROETHANE, SUSPENDED	UG/L	General Organic
95501	34536		600			1,2-DICHLOROBENZENE, TOTAL	UG/L	General Organic
95501	34537		600			1,2-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
95501	34538		600			1,2-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
78875	34541		5.0			1,2-DICHLOROPROPANE, TOTAL	UG/L	General Organic
78875	34542		5.0			1,2-DICHLOROPROPANE, DISSOLVED	UG/L	General Organic
78875	34543		5.0			1,2-DICHLOROPROPANE, SUSPENDED	UG/L	General Organic
156605	34546		100			TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER	UG/L	General Organic
156605	34547		100			TRANS-1,2-DICHLOROETHENE, DISSOLVED	UG/L	General Organic
156605	34548		100			TRANS-1,2-DICHLOROETHENE, SUSPENDED	UG/L	General Organic
120821	34551		70			1,2,4-TRICHLOROBENZENE, TOTAL	UG/L	General Organic
120821	34552		70			1,2,4-TRICHLOROBENZENE, DISSOLVED	UG/L	General Organic
120821	34553		70			1,2,4-TRICHLOROBENZENE, SUSPENDED	UG/L	General Organic
541731	34566		600			1,3-DICHLOROBENZENE, TOTAL	UG/L	General Organic
541731	34567		600			1,3-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
541731	34568		600			1,3-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
106467	34571		75			1,4-DICHLOROBENZENE, TOTAL	UG/L	General Organic
106467	34572		75			1,4-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
106467	34573		75			1,4-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
95578	34586	4380*				2-CHLOROPHENOL, TOTAL	UG/L	General Organic
95578	34587	4380*				2-CHLOROPHENOL, DISSOLVED	UG/L	General Organic
95578	34588	4380*				2-CHLOROPHENOL, SUSPENDED	UG/L	General Organic
120832	34601	2020*				2,4-DICHLOROPHENOL, TOTAL	UG/L	General Organic
120832	34602	2020*				2,4-DICHLOROPHENOL, DISSOLVED	UG/L	General Organic
120832	34603	2020*				2,4-DICHLOROPHENOL, SUSPENDED	UG/L	General Organic
105679	34606	2120*				2,4-DIMETHYLPHENOL, TOTAL	UG/L	General Organic
105679	34607	2120*				2,4-DIMETHYLPHENOL, DISSOLVED	UG/L	General Organic
105679	34608	2120*				2,4-DIMETHYLPHENOL, SUSPENDED	UG/L	General Organic
121142	34611	330*		590*		2,4-DINITROTOLUENE, TOTAL	UG/L	General Organic
121142	34612	330*		590*		2,4-DINITROTOLUENE, DISSOLVED	UG/L	General Organic
121142	34613	330*		590*		2,4-DINITROTOLUENE, SUSPENDED	UG/L	General Organic
72548	34651	0.6*		3.6*		P,P'-DDD, DISSOLVED	UG/L	Pesticide
72548	34652	0.6*		3.6*		P,P'-DDD, SUSPENDED	UG/L	Pesticide
72559	34653	1050*		14*		P,P'-DDE, DISSOLVED	UG/L	Pesticide
72559	34654	1050*		14*		P,P'-DDE, SUSPENDED	UG/L	Pesticide
50293	34655	1.1		0.13		P,P'-DDT, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
50293	34656	1.1		0.13		P,P'-DDT, SUSPENDED	UG/L	Pesticide
1746016	34675	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), TOT	UG/L	General Organic
1746016	34676	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), DISS	UG/L	General Organic
1746016	34677	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), SUSP	UG/L	General Organic
108952	34694	10200*		5800*		PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	UG/L	General Organic
91203	34696	2300*		2350*		NAPHTHALENE, TOTAL	UG/L	General Organic
75990	38432		200			DALAPON, WATER, TOTAL	UG/L	Pesticide
75990	38433		200			DALAPON, WATER, DISSOLVED	UG/L	Pesticide
75990	38434		200			DALAPON, WATER, SUSPENDED	UG/L	Pesticide
96128	38437		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL	UG/L	Pesticide
96128	38438		0.2			DIBROMOCHLOROPROPANE, WATER, DISSOLVED	UG/L	Pesticide
96128	38439		0.2			DIBROMOCHLOROPROPANE WATER, SUSPENDED	UG/L	Pesticide
96128	38760		0.2			DBCP, WATER, TOTAL	UG/L	Pesticide
96128	38761		0.2			DBCP, WATER, DISSOLVED	UG/L	Pesticide
96128	38762		0.2			DBCP, WATER, SUSPENDED	UG/L	Pesticide
88857	38779		7.0			DINOSEB, DISSOLVED	UG/L	Pesticide
88857	38780		7.0			DINOSEB, SUSPENDED	UG/L	Pesticide
23135220	38865		200			OXAMYL, TOTAL	UG/L	Pesticide
23135220	38866		200			OXAMYL, DISSOLVED	UG/L	Pesticide
23135220	38867		200			OXAMYL, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
145733	38926		100			ENDOTHALL, WHOLE WATER SAMPLE	UG/L	Pesticide
2921882	38932	0.083		0.011		CHLORPYRIFOS, TOTAL RECOVERABLE	UG/L	Pesticide
2921882	38933	0.083		0.011		CHLORPYRIFOS, DISSOLVED	UG/L	Pesticide
2163806	38935		50			MONOSODIUM METHANEARSONATE (MSMA)	UG/L	Pesticide
2921882	39012	0.083		0.011		DURSBAN, FLAME PHOTOMETRIC, WATER SAMPLE	UG/L	Pesticide
56382	39015	0.065				ETHYLPARATHION, FLAME IONIFATION, WATER SAMPLE	UG/L	Pesticide
122349	39025		4.0			SIMAZINE, COULSON CONDUCTIVITY WATER SAMPLE	UG/L	Pesticide
87865	39032	20***	1.0	13		PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39033		3.0			ATRAZINE IN WHOLE WATER SAMPLE	UG/L	Pesticide
118741	39039	6.0 ^p	1.0			HEXACHLOROBENZENE WATER SAMPLE, ELECTRON CPT	UG/L	Pesticide
93721	39045		50			2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPLE	UG/L	Pesticide
116063	39053		3.0			ALDICARB IN WHOLE WATER	UG/L	Pesticide
122349	39055		4.0			SIMAZINE IN WHOLE WATER	UG/L	Pesticide
117817	39100	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	UG/L	General Organic
117817	39103	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED	UG/L	General Organic
117817	39104	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED	UG/L	General Organic
	39117	0.94*		2.994*		PHTHLATE ESTERS IN WATER	MG/L	General Organic
75014	39175		2.0			VINYL CHLORIDE-WHOLE WATER SAMPLE	UG/L	General Organic
79016	39180	45000*	5.0	2000*		TRICHLOROETHYLENE-WHOLE WATER SAMPLE	UG/L	General Organic
50293	39300	1.1		0.13		P,P' DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
72548	39310	0.6*		3.6*		P,P' DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39320	1050*		14*		P,P' DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39330	3.0		1.3		ALDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39331	3.0		1.3		ALDRIN IN FILT. FRAC. OF WAT. SAMP.	UG/L	Pesticide
309002	39332	3.0		1.3		ALDRIN IN SUSP. FRAC. OF WAT. SAMP.	UG/L	Pesticide
58899	39340	2.0	0.2	0.16		GAMMA-BHC(LINDANE), WHOLE WATER	UG/L	Pesticide
58899	39341	2.0	0.2	0.16		GAMMA-BHC(LINDANE), DISSOLVED	UG/L	Pesticide
58899	39342	2.0	0.2	0.16		GAMMA-BHC(LINDANE), SUSPENDED	UG/L	Pesticide
57749	39350	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), WHOLE WATER	UG/L	Pesticide
57749	39352	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), DISSOLVED	UG/L	Pesticide
57749	39353	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), SUSPENDED	UG/L	Pesticide
72548	39360	0.6*		3.6*		DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72548	39361	0.6*		3.6*		DDD IN FILT. FRAC. OF WATER SMAPLE	UG/L	Pesticide
72548	39362	0.6*		3.6*		DDD IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39365	1050*		14*		DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39366	1050*		14*		DDE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39367	1050*		14*		DDE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39370	1.1		0.13		DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide
50293	39371	1.1		0.13		DDT IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39372	1.1		0.13		DDT IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
60571	39380	2.5		0.71		DIELDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
60571	39381	2.5		0.71		DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
60571	39382	2.5		0.71		DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
115297	39388	0.22		0.034		ENDOSULFAN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39390	0.18	2.0	0.037		ENDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39391	0.18	2.0	0.037		ENDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72208	39392	0.18	2.0	0.037		ENDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39400	0.73	3.0	0.21		TOXAPHENE IN WHOLE WATER SAMPLE	UG/L	Pesticide
8001352	39401	0.73	3.0	0.21		TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39402	0.73	3.0	0.21		TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39410	0.52	0.4	0.053		HEPTACHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	39411	0.52	0.4	0.053		HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39412	0.52	0.4	0.053		HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1024573	39420	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1024573	39421	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER SAMPLE	UG/L	Pesticide
1024573	39422	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER SAMPLE	UG/L	Pesticide
72435	39478		40			METHOXYCHLOR IN WHOLE WATER DISSOLVED	UG/L	Pesticide
72435	39479		40			METHOXYCHLOR IN WHOLE WATER SUSPENDED	UG/L	Pesticide
72435	39480		40			METHOXYCHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
56382	39540	0.065				PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
56382	39542	0.065				PARATHION IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
56382	39543	0.065				PARATHION IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1912249	39630		3.0			ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39632		3.0			ATRAZINE DISSOLVED IN WATER	PPB	Pesticide
118741	39700	6.0 ^p	1.0			HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	UG/L	General Organic
87683	39702	90*		32*		HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE	UG/L	General Organic
1918021	39720		500			PICLORAM IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39730		70			2,4-D IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39732		70			2,4-D IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
94757	39733		70			2,4-D IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39760		50			SILVEX IN WHOLE WATER SAMPLE	UG/L	Pesticide
93721	39762		50			SILVEX IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39763		50			SILVEX IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
58899	39782	2.0	0.2	0.16		LINDANE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1071836	39941		700			ROUNDUP IN WHOLE WATER SAMPLE (GLYPHOSATE)	UG/L	Pesticide
7782505	45650	0.019		0.013		CHLORINE, IN ORGANIC COMPOUNDS, WATER, WHOLE	MG/L	General Inorganic
56382	46315	0.065				ETHYL PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
58899	46322	2.0	0.2	0.16		LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	46326	0.52	0.4	0.053		HEPTACHLOR AND METABOLITES IN WHOLE H2O SAMPLE	UG/L	Pesticide
15972608	46342		2.0			ALACHLOR (LASSO), WATER, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782505	46472	0.019		0.013		CHLORINE, TOTAL RESIDUAL, AVERAGE VALUE, WATER	MG/L	General Inorganic
7782505	46473	0.019		0.013		CHLORINE, FREE AVAILABLE, AVERAGE VALUE, WATER	MG/L	General Inorganic
57125	46479	22	200	1.0		CYANIDE, DISSOLVED, WATER	UG/L	General Inorganic
7440382	46551	360	50	69		ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILTERED	UG/L	Metal
7440393	46558		2000			BARIUM, FIELD ACIDIFIED W/HNO3-LAB FILT	UG/L	Metal
7440439	46559	3.9 ⁺	5.0	43		CADMIUM,FIELD ACIDIFIED-HNO3-LAB FILTER	UG/L	Metal
7440473	46560		100			CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT.	UG/L	Metal
7440508	46562	18+	1300 ^a	2.9		COPPER, FIELD ACIDIFIED-HNO3- LAB FILTER.	UG/L	Metal
7439921	46564	82+	15ª	220		LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED	UG/L	Metal
7440224	46566	4.1+	100 ^s	0.12		SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.	UG/L	Metal
7440666	46567	120+	5000s	95		ZINC, EXTRACTABLE, FIELD ACID W/HNO3,LAB FILTR	UG/L	Metal
56382	49011	0.065				UNKNOWNS AS PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
7782505	50058	0.019		0.013		CHLORINE DOSE	MG/L	General Inorganic
7782505	50060	0.019		0.013		CHLORINE, TOTAL RESIDUAL	MG/L	General Inorganic
7782505	50064	0.019		0.013		CHLORINE, FREE AVAILABLE	MG/L	General Inorganic
7782505	50066	0.019		0.013		CHLORINE, COMBINED AVAILABLE	MG/L	General Inorganic
7782505	50074	0.019		0.013		CHLORITE, WHOLE WATER	MG/L	General Inorganic
	61215				200^	FECAL COLIFORM, GENERAL #/100ML	#/100ML	Bacteriological
16887006	70352	860	250 ^s			CHLORIDE, ORGANIC	MG/L	General Organic
14797558	71850		44			NITRATE NITROGEN, TOTAL (AS NO3)	MG/L	Nitrogen

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
14797558	71851		44			NITRATE NITROGEN, DISSOLVED (AS NO3)	MG/L	Nitrogen
14797650	71855		3.3			NITRITE NITROGEN, TOTAL (AS NO2)	MG/L	Nitrogen
14797650	71856		3.3			NITRITE NITROGEN, DISSOLVED (AS NO2)	MG/L	Nitrogen
7439976	71890	2.4	2.0	2.1		MERCURY, DISSOLVED	UG/L	Metal
7439976	71895	2.4	2.0	2.1		MERCURY, SUSPENDED	UG/L	Metal
7439976	71900	2.4	2.0	2.1		MERCURY, TOTAL	UG/L	Metal
7439976	71901	2.4	2.0	2.1		MERCURY, TOTAL RECOVERABLE IN WATER AS HG	UG/L	Metal
7440439	71946	3.9 ⁺	5.0	43		CADMIUM, EXTRACTABLE	UG/L	Metal
7440473	71947		100			CHROMIUM, EXTRACTABLE	UG/L	Metal
7439921	71949	82 ⁺	15ª	220		LEAD, EXTRACTABLE	UG/L	Metal
7440666	71950	120 ⁺	5000s	95		ZINC, EXTRACTABLE	UG/L	Metal
7440508	71951	18+	1300 ^a	2.9		COPPER, EXTRACTABLE	UG/L	Metal
1336363	76011	2000	500	10000		PCBS, SUSPENDED, WATER	NG/L	General Organic
1336363	76012	2000	500	10000		PCBS, TOTAL RECOVERABLE, WATER	NG/L	General Organic
156592	77093		70			CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	UG/L	General Organic
100425	77128		100			STYRENE, WHOLE WATER	UG/L	General Organic
106489	77296			29700*		P-CHLOROPHENOL, WHOLE WATER	UG/L	General Organic
106934	77651		0.05			1,2-DIBROMOETHANE, WHOLE WATER	UG/L	General Organic
95954	77687	100 ^p		240 ^p		2,4,5-TRICHLOROPHENOL, WHOLE WATER	UG/L	General Organic
935955	77769			440*		2,3,5,6-TETRACHLOROPHENOL, WHOLE WATER	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
103231	77903		400			BIS (2-ETHYLHEXYL) ADIPATE, WHOLE WATER	UG/L	General Organic
18540299	78247	16	100	1100		CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE	UG/L	Metal
57125	78248	22	200	1.0		CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE	UG/L	Metal
	78456	11*		12*		HALOMETHANES, SUMMATION, WHOLE WATER	MG/L	General Organic
14808798	78462		250 ^s			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20°			URANIUM, DISS. BY EXTRACTION FLUOROMETRIC	UG/L	Radiological
16065831	80357	1700	100	10300*		CHROMIUM, TRIVALENT, DISSOLVED	UG/L	Metal
57125	81208	0.022	0.2	0.001		CYANIDE,FREE (NOT AMENABLE TO CHLORINATION)	MG/L	General Inorganic
608731	81283	100*		0.34*		BENZENEHEXACHLORIDE, WHOLE WATER	UG/L	Pesticide
88857	81287		7.0			DNBP(C10H12N2O5), WHOLE WATER SAMPLE	UG/L	Pesticide
26638197	81327	23000*	5.0	10300*		DICHLOROPROPANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81333	1120*		1970*		DICHLOROBENZENE ISOMER, WHOLE WATER SAMPLE	UG/L	General Organic
2921882	81403	0.083		0.011		DURSBAN (CHLOROPYRIFOS) WHOLE WATER SAMPLE	UG/L	Pesticide
1563662	81405		40			CARBOFURAN (EURADAN) WHOLE WATER SAMPLE	UG/L	Pesticide
76017	81501	7240*		390*		PENTACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81524	1120*		1970*		DICHLOROBENZENE, WHOLE WATER SAMPLE	UG/L	General Organic
25322207	81549	9320*				TETRACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
26638197	81703	23*	0.005*	10.3*		DICHLOROPROPANE, WHOLE WATER SAMPLE	MG/L	General Organic
7440508	81750	18 ⁺	1300 ^a	2.9		COPPER, INTERSTITIAL WATERFROM SEDIMENTS	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	81752	1400+	100	75		NICKEL, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
7440666	81754	120 ⁺	5000s	95		ZINC, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
25323891	81853	18000*				TRICHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
7439976	81931	2.4	2.0	2.1		MERCURY (HG) SUSPENDED FRACTION OF WATER	UG/G	Metal
7440666	81933	120 ⁺	5000°	95		ZINC (ZN) SUSPENDED FRACTION OF WATER	UG/G	Metal
7439921	81936	82+	15ª	220		LEAD (PB) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440439	81937	3.9 ⁺	5.0	43		CADMIUM (CD) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81938		100			CHROMIUM (CR) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440508	81939	18+	1300 ^a	2.9		COPPER (CU) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440666	81940	120 ⁺	5000s	95		ZINC (ZN) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81941		100			CHROMIUM (CR) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440508	81942	18+	1300 ^a	2.9		COPPER (CU) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440666	81943	120 ⁺	5000s	95		ZINC (ZN) DISSOLVED ANIONIC SPECIES	UG/L	Metal
	82078				50 [!]	TURBIDITY, FIELD	NTU	Physical
	82079				50 [!]	TURBIDITY, LAB	NTU	Physical
88857	82226		7.0			2 SECONDARY BUTYL 4,6-DINITROPHENOL	UG/L	Pesticide
16887006	82295	860000	250000°			CHLORIDE DISSOLVED AS CL IN WATER	UG/L	General Inorganic
72435	82350		40			METHOXYCHLOR, DISSOLVED IN WATER	UG/L	Pesticide
72435	82351		40			METHOXYCHLOR, SUSPENDED IN WATER	UG/L	Pesticide
115297	82354	0.22		0.034		ENDOSULFAN, DISSOLVED IN WATER	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
115297	82355	0.22		0.034		ENDOSULFAN, SUSPENDED IN WATER	UG/L	Pesticide
57125	82573	0.022	0.2	0.001		CYANIDE/CHLORINATION IN WATER	MG/L	General Inorganic
1646873	82586		4.0			ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE	UG/L	General Organic
1646884	82587		2.0			ALDICARB SULFONE, WHOLE WATER, TOTAL RECOVERABLE	UG/L	General Organic
23135220	82613		200			OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
1563662	82615		40			CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
116063	82619		3.0			ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
33213659	82624	0.22		0.034		ENDOSULFAN, BETA, WH WATER, TOTAL RECOVERABLE	UG/L	Pesticide
96128	82625		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL RECOVERABLE	UG/L	Pesticide
7440382	82702	360	50	69		ARSENIC, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440393	82703		2			BARIUM, FIELD ACIDIFIED, DECANTED, WATER	MG/L	Metal
7440417	82704	130*	4.0			BERYLLIUM, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440439	82705	3.9 ⁺	5.0	43		CADMIUM, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440473	82706		100			CHROMIUM, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440508	82708	18+	1300ª	2.9		COPPER, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7439921	82711	82+	15ª	220		LEAD, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7439976	82713	2.4	2.0	2.1		MERCURY, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440020	82715	1400 ⁺	100	75		NICKEL, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440224	82716	4.1+	100 ^s	0.12		SILVER, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440666	82719	120 ⁺	5000 ^s	95		ZINC, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal

Footnote Key:

*Insufficient Data to Develop Criteria. Value Presented is the L.O.E.L. - Lowest Observed Effect Level.

⁺Hardness Dependent Criteria (100 mg/L CaCO₃ Used).

*** pH Dependent Criteria (7.8 pH Used).

Rule of thumb criterion used by the NPS Air Quality Division for determining sensitivity to acid deposition.

Freshwater bathing criterion, EPA geometric mean based on at least 5 samples equally spaced over a 30-day period; Enterococci marine water bathing criterion 35 CFU/100 ml.

*EPA freshwater aquatic life chronic criterion; marine criterion is $\leq 6.5, \geq 8.5$.

¹Arizona state standard.

^aEPA action level, 40 CFR 141.80.

^bCalifornia and Florida state bathing water standards.

^cA Compilation of Water Quality Goals, California Regional Water Quality Control Board Central Valley Region, Sacramento, California, September, 1991.

ⁿTotal coliform drinking water maximum contaminant level (1 cfu/100ml or 1 mpn/100ml) was not used in water quality criteria comparisons.

^pProposed Criterion.

^rAverage annual concentration assumed to produce a total body or organ dose of 4 mrem/year, 40 CFR 141.16.

^sEPA National Secondary Drinking Water Regulation, 40 CFR 143.

^tThe maximum contaminant level for the sum of the concentrations of trihalomethanes is 100 μg/L, 40 CFR 141.12.

^uColdwater criterion one day minimum; warmwater criterion seven day mean minimum.

Appendix G

Inventory Data Evaluation and Analysis (IDEA) Servicewide Inventory and Monitoring Program "Level I" Parameter Groups

The following table provides the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameter groups (National Park Service 1993). In order to determine the presence and/or absence of data for each of these parameter groups in the park, the parameter groups had to be defined by STORET parameter codes. This table provides the STORET codes and parameter descriptions for each parameter comprising one of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameter groups. Additional parameters could have been incorporated into each group, but an effort was made to represent each group with the parameters deemed to most likely occur in STORET and parks. The Toxic Elements Parameter Group was defined as the EPA's Clean Water Act Section 304(a) Priority Toxic Pollutants (40 CFR 131.36). Parameters are listed in ascending order of STORET code within each parameter group. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to find all the parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

STORET Code	Water Temperature Parameter Group	C.A.S. Number
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	-
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	-
STORET Code	Flow Parameter Group ¹	C.A.S. Number
00056	FLOW RATE, GALLONS/DAY	-
00058	FLOW RATE, GALLONS/MIN.	-
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	-
00060	FLOW, STREAM, MEAN DAILY CFS	-
00061	FLOW, STREAM, INSTANTANEOUS CFS	-
00065	STAGE, STREAM (FEET)	-
00067	TIDE STAGE CODE	-
00072	STAGE, STREAM (METERS)	-
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¹Tide stage is included in the Flow Parameter Group for coastal parks.

STORET Code	Clarity/Turbidity Parameter Group	C.A.S. Number
00070	TURBIDITY, (JACKSON CANDLE UNITS)	-
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	-
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	-
00077	TRANSPARENCY, SECCHI DISC (INCHES)	-
00078	TRANSPARENCY, SECCHI DISC (METERS)	-
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	-
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	-
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	-
STORET Code	Conductivity Parameter Group	C.A.S. Number
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	-
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	-
00096	SALINITY AT 25 DEGREES C (MG/ML)	-
00480	SALINITY - PARTS PER THOUSAND	-
STORET Code	Dissolved Oxygen Parameter Group	C.A.S. Number
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	7782447
00300	OXYGEN, DISSOLVED (MG/L)	7782447
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	7782447
00389	OXYGEN, DISSOLVED, LAB ANAL. BY PROBE OF FIELD SAMPLE (MG/L)	7782447
STORET Code	pH Parameter Group	C.A.S. Number
	PH (STANDARD UNITS)	-
00400	(
00400 00403	PH, LAB (STANDARD UNITS)	-

STORET Code	Alkalinity Parameter Group	C.A.S. Number
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (μΕQ/L)	471341
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	471341
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	77098
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	471341
00435	ACIDITY, TOTAL (MG/L AS CACO3)	471341
00440	BICARBONATE ION (MG/L AS HCO3)	71523
00445	CARBONATE ION (MG/L AS CO3)	3812326
STORET Code	Nitrate/Nitrogen Parameter Group	C.A.S. Number
00600	NITROGEN, TOTAL (MG/L AS N)	17778880
00602	NITROGEN, DISSOLVED (MG/L AS N)	17778880
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	17778880
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	17778880
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	17778880
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	17778880
00612	AMMONIA, UNIONZED (MG/L AS N)	7664417
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	17778880
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	17778880
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	17778880
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	17778880
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	17778880
00631	NITRITE PLUS NITRATE, DISSOLVED 1 DET. (MG/L AS N)	17778880
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	14798039
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	14798039
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	14797558
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	14797558
71855	NITRITE NITROGEN, TOTAL (MG/L AS NO2)	14797650
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	14797650

	C.A.S.
Phosphate/Phosphorus Parameter Group	Number
PHOSPHATE, TOTAL (MG/L AS PO4)	14265442
PHOSPHATE, POLY (MG/L AS PO4)	14265442
PHOSPHATE, ORTHO (MG/L AS PO4)	14265442
PHOSPHORUS, TOTAL (MG/L AS P)	7723140
PHOSPHORUS, DISSOLVED (MG/L AS P)	7723140
PHOSPHORUS, TOTAL ORGANIC (MG/L AS P)	7723140
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	7723140
PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	7723140
PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	7723140
Sulfates/Total Dissolved Solids/Hardness Parameter Group	C.A.S. Number
HARDNESS, TOTAL (MG/L AS CACO3)	471341
SULFATE, TOTAL (MG/L AS SO4)	14808798
SULFATE, DISSOLVED (MG/L AS SO4)	14808798
RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	-
Chlorophyll Parameter Group	C.A.S. Number
CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	479618
CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	479618
CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	479618
CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	479618
CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED	479618
CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.	479618
CHLOROPHYLL A (MG/M2) FLUOR. CORRECTED, SUBSTRATER	479618
l '	
	PHOSPHATE, TOTAL (MG/L AS PO4) PHOSPHATE, POLY (MG/L AS PO4) PHOSPHATE, ORTHO (MG/L AS PO4) PHOSPHORUS, TOTAL (MG/L AS P) PHOSPHORUS, DISSOLVED (MG/L AS P) PHOSPHORUS, DISSOLVED (MG/L AS P) PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P) PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P) Sulfates/Total Dissolved Solids/Hardness Parameter Group HARDNESS, TOTAL (MG/L AS CACO3) SULFATE, TOTAL (MG/L AS SO4) SULFATE, DISSOLVED (MG/L AS SO4) RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L) Chlorophyll Parameter Group CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH. CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.

STORET Code	Bacteria Parameter Group	C.A.S. Number
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	-
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED., M-ENDO MED,35C	-
31503	COLIFORM, TOT, MEMBRANE FILTER, DELAY, M-ENDO MED, 35C	-
31504	COLIFORM, TOT, MEMBRANE FILTER, IMMED., LES-ENDO AGAR, 35C	-
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	-
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	-
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	-
31508	COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG.	-
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	-
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	-
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	-
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	-
31617	FECAL COLIFORM, MPN,EIJKMAN TEST,44.5C(TUBE 31618)	-
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	-
31648	E. COLI - MTEC-MF	-
31649	ENTEROCOCCI- ME-MF	-
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	-
31676	FECAL STREPTOCOCCI, MPN, KF BROTH, TUBE CONFIG.	-
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	-
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	-
61214	FECAL STREPTOCOCCI, GENERAL #/100ML	-
61215	FECAL COLIFORM, GENERAL #/100ML	-
STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants)	C.A.S. Number
00718	CYANIDE, WEAK ACID, DISSOC. WATER, WHOLE (UG/L)	57125
00719	CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L)	57125
00720	CYANIDE, TOTAL (MG/L AS CN)	57125
00722	CYANIDE, FREE (AMENABLE TO CHLORINATION) (MG/L)	57125

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	57125
00724	CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L)	57125
00969	CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214
00976	AMBIGUOUS ASBESTOS FIBERS/LITER	1332214
00977	NON-AMPHIBOLE NON-CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00978	ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	7440382
00981	SELENIUM, TOTAL RECOVERABLE IN WATER AS SE (UG/L)	7782492
00982	THALLIUM, TOTAL RECOVERABLE IN WATER AS (UG/L)	7440280
00990	SELENITE, TOTAL RECOVERABLE INORGANIC (UG/L)	7782492
00991	ARSENIC, TOTAL RECOVER. TRIVALENT INORGANIC (UG/L)	7440382
00995	ARSENIC, INORGANIC DISSOLVED (UG/L AS AS)	7440382
00996	ARSENIC, INORGANIC SUSPENDED (UG/L AS AS)	7440382
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	7440382
00998	BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L)	7440417
01000	ARSENIC, DISSOLVED (UG/L AS AS)	7440382
01001	ARSENIC, SUSPENDED (UG/L AS AS)	7440382
01002	ARSENIC, TOTAL (UG/L AS AS)	7440382
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7440417
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	7440417
01012	BERYLLIUM, TOTAL (UG/L AS BE)	7440417
01025	CADMIUM, DISSOLVED (UG/L AS CD)	7440439
01026	CADMIUM, SUSPENDED (UG/L AS CD)	7440439
01027	CADMIUM, TOTAL (UG/L AS CD)	7440439
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	7440473
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	7440473
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	7440473
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	16065831
01034	CHROMIUM, TOTAL (UG/L AS CR)	7440473

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
01040	COPPER, DISSOLVED (UG/L AS CU)	7440508
01041	COPPER, SUSPENDED (UG/L AS CU)	7440508
01042	COPPER, TOTAL (UG/L AS CU)	7440508
01049	LEAD, DISSOLVED (UG/L AS PB)	7439921
01050	LEAD, SUSPENDED (UG/L AS PB)	7439921
01051	LEAD, TOTAL (UG/L AS PB)	7439921
01057	THALLIUM, DISSOLVED (UG/L AS TL)	7440280
01058	THALLIUM, SUSPENDED (UG/L AS TL)	7440280
01059	THALLIUM, TOTAL (UG/L AS TL)	7440280
01065	NICKEL, DISSOLVED (UG/L AS NI)	7440020
01066	NICKEL, SUSPENDED (UG/L AS NI)	7440020
01067	NICKEL, TOTAL (UG/L AS NI)	7440020
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	7440020
01075	SILVER, DISSOLVED (UG/L AS AG)	7440224
01076	SILVER, SUSPENDED (UG/L AS AG)	7440224
01077	SILVER, TOTAL (UG/L AS AG)	7440224
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	7440224
01089	COPPER AS SUSPENDED BLACK OXIDE IN WATER (MG/L)	7440508
01090	ZINC, DISSOLVED (UG/L AS ZN)	7440666
01091	ZINC, SUSPENDED (UG/L ZN)	7440666
01092	ZINC, TOTAL (UG/L AS ZN)	7440666
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	7440666
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	7440360
01096	ANTIMONY, SUSPENDED (UG/L AS SB)	7440360
01097	ANTIMONY, TOTAL (UG/L AS SB)	7440360
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	7440439
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	7439921
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7440473
01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU (UG/L)	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
01124	THALLIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7440280
01128	THALLIUM,TOTAL RECOVERABLE <95%, UG/L AS TL	7440280
01138	SELENIUM, IN WATER, LBS/DAY	7782492
01145	SELENIUM, DISSOLVED (UG/L AS SE)	7782492
01146	SELENIUM, SUSPENDED (UG/L AS SE)	7782492
01147	SELENIUM, TOTAL (UG/L AS SE)	7782492
01167	SELENIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7782492
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	18540299
01252	ARSENIC, LB/DAY/CFS STREAM FLOW	7440382
01253	CADMIUM, LB/DAY/CFS STREAM FLOW	7440439
01254	CHROMIUM, TOTAL (LBS/DAY/CFS STREAM FLOW)	7740473
01255	CHROMIUM, HEXAVALENT, LB/DAY/CFS STREAM FLOW	18540299
01256	COPPER, LB/DAY/CFS STREAM FLOW	7440508
01257	CYANIDE LB/DAY/CFS STREAM FLOW	57125
01259	LEAD, LB/DAY/CFS STREAM FLOW	7439921
01260	MERCURY, LB/DAY/CFS STREAM FLOW	7439976
01261	NICKEL, LB/DAY/CFS STREAM FLOW	7440020
01263	SILVER, LB/DAY/CFS STREAM FLOW	7440224
01264	ZINC LB/DAY/CFS STREAM FLOW	7440666
01268	ANTIMONY, (SB), WATER, TOTAL RECOVERABLE (UG/L)	7440360
01291	CYANIDE, FILTERABLE, TOTAL IN WATER (UG/L)	57125
01303	ZINC, POTENTIALLY DISSOLVED WATER (MG/L)	7440666
01304	SILVER, POTENTIALLY DISSOLVED WATER (MG/L)	7440224
01306	COPPER, POTENTIALLY DISSOLVED WATER (MG/L)	7440508
01307	CHROMIUM, HEXAVALENT, POTENT. DISS. WATER (MG/L)	18540299
01309	ARSENIC, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440382
01312	BERYLLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440417
01313	CADMIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440439

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
01314	CHROMIUM, TRIVALENT, POTENT., DISS., WATER (MG/L)	16065831
01318	LEAD, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439921
01321	MERCURY, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439976
01322	NICKEL, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440020
01323	SELENIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7782492
01324	THALLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440280
01523	SILVER, IONIC (UG/L)	7440224
22675	SELENIUM, DISSOLVED ORGANIC (UG/L)	7782492
22676	SELENIUM, HEXAVALENT, DISSOLVED (UG/L)	7782492
22677	SELENIUM, TETRAVALENT, DISSOLVED	7782492
22678	ARSENIC, DISSOLVED ORGANIC (UG/L)	7440382
22679	ARSENIC, PENTAVALENT, DISSOLVED (UG/L)	7440382
22680	ARSENIC, TRIVALENT, DISSOLVED (UG/L)	7440382
30197	2-CHLOROETHYLVINYL ETHER,WATER,WHL,RECOVER (UG/L)	110758
30201	CHLOROMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74873
30202	BROMOMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74839
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXT. (UG/L)	67663
32005	CARBON CHLOROFORM EXTRACTABLES (UG/L)	67663
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLE (UG/L)	67663
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES (UG/L)	67663
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	75274
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	56235
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	107062
32104	BROMOFORM, WHOLE WATER, (UG/L)	75252
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	124481
32106	CHLOROFORM, WHOLE WATER (UG/L)	67663
32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	56235
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	67663

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	108883
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	71432
34198	BHC-DELTA, WATER, WHOLE (LBS/DAY)	319868
34200	ACENAPHTHYLENE, TOTAL (UG/L)	208968
34201	ACENAPHTHYLENE, DISSOLVED (UG/L)	208968
34202	ACENAPHTHYLENE, SUSPENDED (UG/L)	208968
34205	ACENAPHTHENE, TOTAL (UG/L)	83329
34206	ACENAPHTHENE, DISSOLVED (UG/L)	83329
34207	ACENAPHTHENE, SUSPENDED (UG/L)	83329
34210	ACROLEIN, TOTAL (UG/L)	107028
34211	ACROLEIN, DISSOLVED (UG/L)	107028
34212	ACROLEIN, SUSPENDED (UG/L)	107028
34215	ACRYLONITRILE, TOTAL (UG/L)	107131
34216	ACRYLONITRILE, DISSOLVED (UG/L)	107131
34217	ACRYLONITRILE, SUSPENDED (UG/L)	107131
34220	ANTHRACENE, TOTAL (UG/L)	120127
34221	ANTHRACENE, DISSOLVED (UG/L)	120127
34222	ANTHRACENE, SUSPENDED (UG/L)	120127
34225	ASBESTOS (FIBROUS) TOTAL (UG/L)	1332214
34226	ASBESTOS (FIBROUS) DISSOLVED (UG/L)	1332214
34227	ASBESTOS (FIBROUS) SUSPENDED (UG/L)	1332214
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	205992
34231	BENZO(B)FLUORANTHENE, DISSOLVED (UG/L)	205992
34232	BENZO(B)FLUORANTHENE, SUSPENDED (UG/L)	205992
34235	BENZENE, DISSOLVED (UG/L)	71432
34236	BENZENE, SUSPENDED (UG/L)	71432
34239	BENZIDINE, DISSOLVED (UG/L)	92875
34240	BENZIDINE, SUSPENDED (UG/L)	92875

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	207089
34243	BENZO(K)FLUORANTHENE, DISSOLVED (UG/L)	207089
34244	BENZO(K)FLUORANTHENE, SUSPENDED (UG/L)	207089
34247	BENZO-A-PYRENE, TOTAL (UG/L)	50328
34248	BENZO-A-PYRENE, DISSOLVED (UG/L)	50328
34249	BENZO-A-PYRENE, SUSPENDED (UG/L)	50328
34253	A-BHC-ALPHA, DISSOLVED (UG/L)	319846
34254	A-BHC-ALPHA, SUSPENDED (UG/L)	319846
34255	B-BHC-BETA, DISSOLVED (UG/L)	319857
34256	B-BHC-BETA, SUSPENDED (UG/L)	319857
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	319868
34260	DELTA BENZENE HEXACHLORIDE, DISSOLVED (UG/L)	319868
34261	DELTA BENZENE HEXACHLORIDE, SUSPENDED (UG/L)	319868
34265	R-BHC (LINDANE) GAMMA, DISSOLVED (UG/L)	58899
34266	R-BHC (LINDANE) GAMMA, SUSPENDED (UG/L)	58899
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	111444
34274	BIS (2-CHLOROETHYL) ETHER, DISSOLVED (UG/L)	111444
34275	BIS (2-CHLOROETHYL) ETHER, SUSPENDED (UG/L)	111444
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	111911
34279	BIS (2-CHLOROETHOXY) METHANE, DISSOLVED (UG/L)	111911
34280	BIS (2-CHLOROETHOXY) METHANE, SUSPENDED (UG/L)	111911
34288	BROMOFORM, DISSOLVED (UG/L)	75252
34289	BROMOFORM, SUSPENDED (UG/L)	75252
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	85687
34293	N-BUTYL BENZYL PHTHALATE, DISSOLVED (UG/L)	85687
34294	N-BUTYL BENZYL PHTHALATE, SUSPENDED (UG/L)	85687
34297	CARBON TETRACHLORIDE, DISSOLVED (UG/L)	56235
34298	CARBON TETRACHLORIDE, SUSPENDED (UG/L)	56235

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34301	CHLOROBENZENE, TOTAL (UG/L)	108907
34302	CHLOROBENZENE, DISSOLVED (UG/L)	108907
34303	CHLOROBENZENE, SUSPENDED (UG/L)	108907
34306	CHLORODIBROMOMETHANE, TOTAL (UG/L)	124481
34307	CHLORODIBROMOMETHANE, DISSOLVED (UG/L)	124481
34308	CHLORODIBROMOMETHANE, SUSPENDED (UG/L)	124481
34311	CHLOROETHANE, TOTAL (UG/L)	75003
34312	CHLOROETHANE, DISSOLVED (UG/L)	75003
34313	CHLOROETHANE, SUSPENDED (UG/L)	75003
34316	CHLOROFORM, DISSOLVED (UG/L)	67663
34317	CHLOROFORM, SUSPENDED (UG/L)	67663
34320	CHRYSENE, TOTAL (UG/L)	218019
34321	CHRYSENE, DISSOLVED (UG/L)	218019
34322	CHRYSENE, SUSPENDED (UG/L)	218019
34325	CYANIDE, SUSPENDED (MG/L)	57125
34327	DI-N-BUTYL PHTHALATE, DISSOLVED (UG/L)	84742
34328	DICHLOROBROMOMETHANE, DISSOLVED (UG/L)	75274
34329	DICHLOROBROMOMETHANE, SUSPENDED (UG/L)	75274
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	84662
34337	DIETHYL PHTHALATE, DISSOLVED (UG/L)	84662
34338	DIETHYL PHTHALATE, SUSPENDED (UG/L)	84662
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	131113
34342	DIMETHYL PHTHALATE, DISSOLVED (UG/L)	131113
34343	DIMETHYL PHTHALATE, SUSPENDED (UG/L)	131113
34346	1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L)	122667
34347	1,2-DIPHENYLHYDRAZINE, DISSOLVED (UG/L)	122667
34348	1,2-DIPHENYLHYDRAZINE, SUSPENDED (UG/L)	122667
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1031078

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34352	ENDOSULFAN SULFATE, DISSOLVED (UG/L)	1031078
34353	ENDOSULFAN SULFATE, SUSPENDED (UG/L)	1031078
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	33213659
34357	ENDOSULFAN, BETA, DISSOLVED (UG/L)	33213659
34358	ENDOSULFAN, BETA, SUSPENDED (UG/L)	33213659
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	959988
34362	ENDOSULFAN, ALPHA, DISSOLVED (UG/L)	959988
34363	ENDOSULFAN, ALPHA, SUSPENDED (UG/L)	959988
34371	ETHYLBENZENE, TOTAL (UG/L)	100414
34372	ETHYLBENZENE, DISSOLVED (UG/L)	100414
34373	ETHYLBENZENE, SUSPENDED (UG/L)	100414
34376	FLUORANTHENE, TOTAL (UG/L)	206440
34377	FLUORANTHENE, DISSOLVED (UG/L)	206440
34378	FLUORANTHENE, SUSPENDED (UG/L)	206440
34381	FLUORENE, TOTAL (UG/L)	86737
34382	FLUORENE, DISSOLVED (UG/L)	86737
34383	FLUORENE, SUSPENDED (UG/L)	86737
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	77474
34387	HEXACHLOROCYCLOPENTADIENE, DISSOLVED (UG/L)	77474
34388	HEXACHLOROCYCLOPENTADIENE, SUSPENDED (UG/L)	77474
34391	HEXACHLOROBUTADIENE, TOTAL (UG/L)	87683
34392	HEXACHLOROBUTADIENE, DISSOLVED (UG/L)	87683
34393	HEXACHLOROBUTADIENE, SUSPENDED (UG/L)	87683
34396	HEXACHLOROETHANE, TOTAL (UG/L)	67721
34397	HEXACHLOROETHANE, DISSOLVED (UG/L)	67721
34398	HEXACHLOROETHANE, SUSPENDED (UG/L)	67721
34401	HEXACHLOROBENZENE, DISSOLVED (UG/L)	118741
34402	HEXACHLOROBENZENE, SUSPENDED (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	193395
34404	INDENO (1,2,3-CD) PYRENE, DISSOLVED (UG/L)	193395
34405	INDENO (1,2,3-CD) PYRENE, SUSPENDED (UG/L)	193395
34408	ISOPHORONE, TOTAL (UG/L)	78591
34409	ISOPHORONE, DISSOLVED (UG/L)	78591
34410	ISOPHORONE, SUSPENDED (UG/L)	78591
34413	METHYL BROMIDE, TOTAL (UG/L)	74839
34414	METHYL BROMIDE, DISSOLVED (UG/L)	74839
34415	METHYL BROMIDE, SUSPENDED (UG/L)	74839
34418	METHYL CHLORIDE, TOTAL (UG/L)	74873
34419	METHYL CHLORIDE, DISSOLVED (UG/L)	74873
34420	METHYL CHLORIDE, SUSPENDED (UG/L)	74873
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	75092
34424	METHYLENE CHLORIDE, DISSOLVED (UG/L)	75092
34425	METHYLENE CHLORIDE, SUSPENDED (UG/L)	75092
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L)	621647
34429	N-NITROSODI-N-PROPYLAMINE, DISSOLVED (UG/L)	621647
34430	N-NITROSODI-N-PROPYLAMINE, SUSPENDED (UG/L)	621647
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	86306
34434	N-NITROSODIPHENYLAMINE, DISSOLVED (UG/L)	86306
34435	N-NITROSODIPHENYLAMINE, SUSPENDED (UG/L)	86306
34438	N-NITROSODIMETHYLAMINE, TOTAL (UG/L)	62759
34439	N-NITROSODIMETHYLAMINE, DISSOLVED (UG/L)	62759
34440	N-NITROSODIMETHYLAMINE, SUSPENDED (UG/L)	62759
34443	NAPHTHALENE, DISSOLVED (UG/L)	91203
34444	NAPHTHALENE, SUSPENDED (UG/L)	91203
34447	NITROBENZENE, TOTAL (UG/L)	98953
34448	NITROBENZENE, DISSOLVED (UG/L)	98953

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34449	NITROBENZENE, SUSPENDED (UG/L)	98953
34452	PARACHLOROMETA CRESOL, TOTAL (UG/L)	59507
34453	PARACHLOROMETA CRESOL, DISSOLVED (UG/L)	59507
34454	PARACHLOROMETA CRESOL, SUSPENDED (UG/L)	59507
34457	PCB - 1242, DISSOLVED (UG/L)	53469219
34458	PCB - 1242, SUSPENDED (UG/L)	53469219
34459	PCP (PENTACHLOROPHENOL), DISSOLVED (UG/L)	87865
34460	PCP (PENTACHLOROPHENOL), SUSPENDED (UG/L)	87865
34461	PHENANTHRENE, TOTAL (UG/L)	85018
34462	PHENANTHRENE, DISSOLVED (UG/L)	85018
34463	PHENANTHRENE, SUSPENDED (UG/L)	85018
34466	PHENOL, DISSOLVED (UG/L)	108952
34467	PHENOL, SUSPENDED (UG/L)	108952
34469	PYRENE, TOTAL (UG/L)	129000
34470	PYRENE, DISSOLVED (UG/L)	129000
34471	PYRENE, SUSPENDED (UG/L)	129000
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	127184
34476	TETRACHLOROETHYLENE, DISSOLVED (UG/L)	127184
34477	TETRACHLOROETHYLENE, SUSPENDED (UG/L)	127184
34481	TOLUENE, DISSOLVED (UG/L)	108883
34482	TOLUENE, SUSPENDED (UG/L)	108883
34485	TRICHLOROETHYLENE, DISSOLVED (UG/L)	79016
34486	TRICHLOROETHYLENE, SUSPENDED (UG/L)	79016
34493	VINYL CHLORIDE, DISSOLVED (UG/L)	75014
34494	VINYL CHLORIDE, SUSPENDED (UG/L)	75014
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	75343
34497	1,1-DICHLOROETHANE, DISSOLVED (UG/L)	75343
34498	1,1-DICHLOROETHANE, SUSPENDED (UG/L)	75343

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	75354
34502	1,1-DICHLOROETHYLENE, DISSOLVED (UG/L)	75354
34503	1,1-DICHLOROETHYLENE, SUSPENDED (UG/L)	75354
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	71556
34507	1,1,1-TRICHLOROETHANE, DISSOLVED (UG/L)	71556
34508	1,1,1-TRICHLOROETHANE, SUSPENDED (UG/L)	71556
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	79005
34512	1,1,2-TRICHLOROETHANE, DISSOLVED (UG/L)	79005
34513	1,1,2-TRICHLOROETHANE, SUSPENDED (UG/L)	79005
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	79345
34517	1,1,2,2-TETRACHLOROETHANE, DISSOLVED (UG/L)	79345
34518	1,1,2,2-TETRACHLOROETHANE, SUSPENDED (UG/L)	79345
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	191242
34522	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, DISS. (UG/L)	191242
34523	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, SUSP. (UG/L)	191242
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	56553
34527	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, DISS. (UG/L)	56553
34528	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, SUSP. (UG/L)	56553
34531	1,2-DICHLOROETHANE, TOTAL (UG/L)	107062
34532	1,2-DICHLOROETHANE, DISSOLVED (UG/L)	107062
34533	1,2-DICHLOROETHANE, SUSPENDED (UG/L)	107062
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	95501
34537	1,2-DICHLOROBENZENE, DISSOLVED (UG/L)	95501
34538	1,2-DICHLOROBENZENE, SUSPENDED (UG/L)	95501
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	78875
34542	1,2-DICHLOROPROPANE, DISSOLVED (UG/L)	78875
34543	1,2-DICHLOROPROPANE, SUSPENDED (UG/L)	78875
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	156605

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34547	TRANS-1,2-DICHLOROETHENE, DISSOLVED (UG/L)	156605
34548	TRANS-1,2-DICHLOROETHENE, SUSPENDED (UG/L)	156605
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	120821
34552	1,2,4-TRICHLOROBENZENE, DISSOLVED (UG/L)	120821
34553	1,2,4-TRICHLOROBENZENE, SUSPENDED (UG/L)	120821
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	53703
34557	1,2,5,6-DIBENZANTHRACENE, DISSOLVED (UG/L)	53703
34558	1,2,5,6-DIBENZANTHRACENE, SUSPENDED (UG/L)	53703
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	542756
34562	1,3-DICHLOROPROPENE, DISSOLVED (UG/L)	542756
34563	1,3-DICHLOROPROPENE, SUSPENDED (UG/L)	542756
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	541731
34567	1,3-DICHLOROBENZENE, DISSOLVED (UG/L)	541731
34568	1,3-DICHLOROBENZENE, SUSPENDED (UG/L)	541731
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	106467
34572	1,4-DICHLOROBENZENE, DISSOLVED (UG/L)	106467
34573	1,4-DICHLOROBENZENE, SUSPENDED (UG/L)	106467
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	110758
34577	2-CHLOROETHYL VINYL ETHER, DISSOLVED (UG/L)	110758
34578	2-CHLOROETHYL VINYL ETHER, SUSPENDED (UG/L)	110758
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	91587
34582	2-CHLORONAPHTHALENE, DISSOLVED (UG/L)	91587
34583	2-CHLORONAPHTHALENE, SUSPENDED (UG/L)	91587
34586	2-CHLOROPHENOL, TOTAL (UG/L)	95578
34587	2-CHLOROPHENOL, DISSOLVED (UG/L)	95578
34588	2-CHLOROPHENOL, SUSPENDED (UG/L)	95578
34591	2-NITROPHENOL, TOTAL (UG/L)	88755
34592	2-NITROPHENOL, DISSOLVED (UG/L)	88755

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34593	2-NITROPHENOL, SUSPENDED (UG/L)	88755
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	117840
34597	DI-N-OCTYL PHTHALATE, DISSOLVED (UG/L)	117840
34598	DI-N-OCTYL PHTHALATE, SUSPENDED (UG/L)	117840
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	120832
34602	2,4-DICHLOROPHENOL, DISSOLVED (UG/L)	120832
34603	2,4-DICHLOROPHENOL, SUSPENDED (UG/L)	120832
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	105679
34607	2,4-DIMETHYLPHENOL, DISSOLVED (UG/L)	105679
34608	2,4-DIMETHYLPHENOL, SUSPENDED (UG/L)	105679
34611	2,4-DINITROTOLUENE, TOTAL (UG/L)	121142
34612	2,4-DINITROTOLUENE, DISSOLVED (UG/L)	121142
34613	2,4-DINITROTOLUENE, SUSPENDED (UG/L)	121142
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	51285
34617	2,4-DINITROPHENOL, DISSOLVED (UG/L)	51285
34618	2,4-DINITROPHENOL, SUSPENDED (UG/L)	51285
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	88062
34622	2,4,6-TRICHLOROPHENOL, DISSOLVED (UG/L)	88062
34623	2,4,6-TRICHLOROPHENOL, SUSPENDED (UG/L)	88062
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	606202
34627	2,6-DINITROTOLUENE, DISSOLVED (UG/L)	606202
34628	2,6-DINITROTOLUENE, SUSPENDED (UG/L)	606202
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	91941
34632	3,3'-DICHLOROBENZIDINE, DISSOLVED (UG/L)	91941
34633	3,3'-DICHLOROBENZIDINE, SUSPENDED (UG/L)	91941
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	101553
34637	4-BROMOPHENYL PHENYL ETHER, DISSOLVED (UG/L)	101553
34638	4-BROMOPHENYL PHENYL ETHER, SUSPENDED (UG/L)	101553

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	7005723
34642	4-CHLOROPHENYL PHENYL ETHER, DISSOLVED (UG/L)	7005723
34643	4-CHLOROPHENYL PHENYL ETHER, SUSPENDED (UG/L)	7005723
34646	4-NITROPHENOL, TOTAL (UG/L)	100027
34647	4-NITROPHENOL, DISSOLVED (UG/L)	100027
34648	4-NITROPHENOL, SUSPENDED (UG/L)	100027
34651	P,P'-DDD, DISSOLVED (UG/L)	72548
34652	P,P'-DDD, SUSPENDED (UG/L)	72548
34653	P,P'-DDE, DISSOLVED (UG/L)	72559
34654	P,P'-DDE, SUSPENDED (UG/L)	72559
34655	P,P'-DDT, DISSOLVED (UG/L)	50293
34656	P,P'-DDT, SUSPENDED (UG/L)	50293
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	534521
34658	DNOC (4,6-DINITRO-ORTHO-CRESOL), DISSOLVED (UG/L)	534521
34659	DNOC (4,6-DINITRO-ORTHO-CRESOL), SUSPENDED (UG/L)	534521
34662	PCB - 1221, DISSOLVED (UG/L)	11104282
34663	PCB - 1221, SUSPENDED (UG/L)	11104282
34665	PCB - 1232, DISSOLVED (UG/L)	11141165
34666	PCB - 1232, SUSPENDED (UG/L)	11141165
34671	PCB - 1016, TOTAL (UG/L)	12674112
34672	PCB - 1016, DISSOLVED (UG/L)	12674112
34673	PCB - 1016, SUSPENDED (UG/L)	12674112
34675	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD),TOT(UG/L)	1746016
34676	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(UG/L)	1746016
34677	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(UG/L)	1746016
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	108952
34696	NAPHTHALENE, TOTAL (UG/L)	91203
34750	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)TOT(PG/L)	1746016

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
34751	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(PG/L)	1746016
34752	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(PG/L)	1746016
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	87865
39039	HEXACHLOROBENZENE WATER SAMPLE, ELECTRON CPT (UG/L)	118741
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	117817
39103	BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED, (UG/L)	117817
39104	BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED, (UG/L)	117817
39107	PHTHALATES,DIETHYLHEXYL SUS.FRAC.WTR DWT (MG/KG)	117817
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	84742
39114	DI-N-BUTYL PHTHALATE, SUSPENDED (UG/L)	84742
39115	PHTHALATES, DIBUTYL SUS.FRAC.WATER DWT (UG/KG)	84742
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	92875
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	75014
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	79016
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	309002
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	309002
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)	309002
39336	BHC-ALPHA, WATER, WHOLE (LBS/DAY)	319846
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319846
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319857
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	58899
39341	GAMMA-BHC(LINDANE), DISSOLVED (UG/L)	58899
39342	GAMMA-BHC(LINDANE), SUSPENDED (UG/L)	58899
39344	BHC-GAMMA, WATER, WHOLE (LBS/DAY)	58899
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	57749

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L)	57749
39353	CHLORDANE(TECH MIX & METABS), SUSPENDED (UG/L)	57749
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	72548
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72548
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72559
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72559
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	50293
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	50293
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	60571
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	60571
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	60571
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	72208
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72208
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72208
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8001352
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	8001352
39402	TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	8001352
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	76448
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	76448
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	76448
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1024573
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L)	1024573
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT. SAM. (UG/L)	1024573
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	11104282
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11141165

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	53469219
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	12672296
39501	PCB - 1248 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12672296
39502	PCB - 1248 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	12672296
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11097691
39505	PCB - 1254 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11097691
39506	PCB - 1254 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11097691
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11096825
39509	PCB - 1260 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11096825
39510	PCB - 1260 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11096825
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	118741
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE (UG/L)	87683
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	58899
39920	DNOC IN WHOLE WATER SAMPLE (UG/L)	534521
46322	LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE (UG/L)	58899
46323	DELTA-BHC IN WHOLE WATER SAMPLE (UG/L)	319868
46326	HEPTACHLOR AND METABOLITES IN WH. H2O SAMP. (UG/L)	76448
46479	CYANIDE, DISSOLVED, WATER (UG/L)	57125
46551	ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILT. (UG/L)	7440382
46559	CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER (UG/L-CD)	7440439
46560	CHROMIUM, FIELD ACIDIFIED-HN03-LAB FILT. (UG/L-CR)	7440473
46562	COPPER, FIELD ACIDIFIED-HNO3-LAB FILTER. (UG/L-CU)	7440508
46564	LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED (UG/L-PB)	7439921
46566	SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.(UG/L-AG)	7440224
46567	ZINC, EXTRACT. FIELD ACID W/HNO3, LAB FILT. (UG/L)	7440666
70012	PARACHLOROMETA CRESOL, WATER, WHOLE (LBS/DAY)	59507
70017	HEXACHLOROCYCLOPENTADIENE, WATER, WHOLE (LBS/DAY)	77474
70021	LEAD, (TCLP), WATER, TOTAL (MG/L)	7439921

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
71890	MERCURY, DISSOLVED (UG/L AS HG)	7439976
71895	MERCURY, SUSPENDED (UG/L AS HG)	7439976
71900	MERCURY, TOTAL (UG/L AS HG)	7439976
71901	MERCURY, TOTAL RECOVERABLE IN WATER AS HG (UG/L)	7439976
71946	CADMIUM, EXTRACTABLE (UG/L AS CD)	7440439
71947	CHROMIUM, EXTRACTABLE (UG/L AS CR)	7440473
71949	LEAD, EXTRACTABLE (UG/L AS PB)	7439921
71950	ZINC, EXTRACTABLE (UG/L AS ZN)	7440666
71951	COPPER, EXTRACTABLE (UG/L AS CU)	7440508
73063	CHLOROGUAIACOL,4-, TOTAL, WATER (UG/L)	16766306
73522	PROPANE, 2,2'-OXYBIS(1-CHLORO)- TOTAL (UG/L)	108601
77163	1,3-DICHLOROPROPENE-1, WHOLE WATER (UG/L)	542756
77354	1,1-DICHLORO-2,2-DIFLUOROETHANE WHOLE WATER (UG/L)	471432
77771	3-CHLORO-4-HYDROXYBENZOPHENONE, WHOLE WATER (UG/L)	55191203
78113	ETHYL BENZENE WHOLE WATER SAMPLE (UG/L)	100414
78124	BENZENE IN WATER (VOLATILE ANALYSIS) (UG/L)	71432
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) (UG/L)	108883
78208	2,4-DINITRO-O-CRESOL IN WHOLE WATER SAMPLE (UG/L)	534521
78247	CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE, WT (UG/L)	18540299
78248	CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE (UG/L)	57125
80357	CHROMIUM, TRIVALENT, DISSOLVED, AS CR	16065831
81208	CYANIDE, FREE (NOT AMEN. TO CHLORINATION) (MG/L)	57125
81210	CYANIDE - STATE OF ILLINOIS (MG/L)	57125
81214	CADMIUM - STATE OF ILLINOIS (MG/L)-COLD	7440439
81215	CHROMIUM - STATE OF ILLINOIS (MG/L), COLD DIGEST	18540299
81216	CHROMIUM(TRI)-STATE OF ILLINOIS (MG/L)-COLD DIGEST	16065831
81217	CHROMIUM, TOTAL - STATE OF ILLINOIS (MG/L) COLD DIGEST	7440473
81218	COPPER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
81220	LEAD, STATE OF ILLINOIS, MG/L, COLD DIGEST	7439921
81222	NICKEL - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440020
81223	SILVER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440224
81224	ZINC - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440666
81642	SILVER (AG) IN WATER POUNDS PER DAY (LBS/DAY)	7440224
81750	COPPER, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440508
81751	LEAD, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7439921
81752	NICKEL, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440020
81753	CADMIUM, INTERSTITIAL WATER FROM SEDIMENT	7440439
81754	ZINC, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440666
81766	HEPTACHLOR EPOXIDE IN EPILITHIC ALGAE SED. (UG/KG)	1024573
81931	MERCURY (HG) SUSPENDED FRACTION OF WATER (UG/G)	7439976
81932	CADMIUM (CD) SUSPENDED FRACTION OF WATER (UG/G)	7440439
81933	ZINC (ZN) SUSPENDED FRACTION OF WATER (UG/G)	7440666
81934	LEAD (PB) SUSPENDED FRACTION OF WATER (UG/G)	7439921
81936	LEAD (PB) DISSOLVED CATIONIC SPECIES (UG/L)	7439921
81937	CADMIUM (CD) DISSOLVED CATIONIC SPECIES (UG/L)	7440439
81938	CHROMIUM, DISSOLVED CATIONIC SPECIES (UG/L)	7440473
81939	COPPER (CU) DISSOLVED CATIONIC SPECIES (UG/L)	7440508
81940	ZINC (ZN) DISSOLVED CATIONIC SPECIES (UG/L)	7440666
81941	CHROMIUM, DISSOLVED ANIONIC SPECIES (UG/L)	7440473
81942	COPPER (CU) DISSOLVED ANIONIC SPECIES (UG/L)	7440508
81943	ZINC (ZN) DISSOLVED ANIONIC SPECIES (UG/L)	7440666
82058	CHROMIUM, TOTAL, PERCENT REMOVAL	7440473
82399	CHROMIUM, HEXAVALENT (KG/BATCH)	18540299
82512	M,P-DICHLOROBENZENE (MEASURES 1,3&1,4) TOT. (UG/L)	541731
82573	CYANIDE/CHLORINATION IN WATER (MG/L)	57125
82621	HEXACHLOROBENZENE, WATER, TOTAL RECOVER. (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont	C.A.S. Number
82622	ENDRIN ALDEHYDE, WH. WATER, TOTAL RECOVER. (UG/L)	7421934
82623	ENDOSULFAN SULFATE, WATER, TOTAL RECOVER. (UG/L)	1031078
82624	ENDOSULFAN, BETA, WH. WATER, TOTAL RECOVER. (UG/L)	33213659
82626	1,2-DIPHENYLHYDRAZINE, WATER, TOTAL RECOVER. (UG/L)	122667
82627	PARACHLOROMETA CRESOL, WATER, TOTAL RECOVER. (UG/L)	59507
82702	ARSENIC, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440382
82704	BERYLLIUM, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440417
82705	CADMIUM, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440439
82706	CHROMIUM, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440473
82708	COPPER, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440508
82711	LEAD, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7439921
82713	MERCURY, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7439976
82715	NICKEL, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440020
82716	SILVER, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440224
82719	ZINC, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440666
85006	ZINC, TOTAL - (#/DAY)	7440666
85007	CHROMIUM, TOTAL (#/DAY)	7440473
85010	NICKEL, TOTAL - (#/DAY)	7440020
85013	MERCURY, TOTAL - (#/DAY)	7439976

Appendix H

Literature Cited

Code of Federal Regulations. 1994. Protection of Environment. 40 CFR Parts 100 to 149. Revised as of July 1, 1994. Published by the Office of the Federal Register, National Archives and Records Administration. U.S. Government Printing Office, Washington, D.C. 20402.

Gilbert, R. O. 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York, NY. 320p.

GKY and Associates. 1990. Dam Inventory Database and Retrieval Software: Final Report. U.S. Environmental Protection Agency, Water Quality Analysis Branch. Under Contract #68-03-3339.

Kunkle, S. and J. Wilson. 1984. Specific Conductance and pH Measurements in Surface Waters: An Introduction for Park Natural Resource Specialists. Water Resources Field Support Laboratory Report No. 84-3. National Park Service, Water Resources Division, Fort Collins, Colorado 80525. 51p.

National Park Service. 1993. Strategic Plan for Conducting Baseline Natural Resource Inventories in the National Park Service. National Park Service, Washington Office, Servicewide Inventory and Monitoring Program, Washington, D.C. Unpublished. 17p.

- U.S. Environmental Protection Agency. 1995. Quality Criteria for Water 1995. Final Draft. Office of Water Regulations and Standards, Washington, D.C.
- U.S. Environmental Protection Agency. 1989. STORET User Handbook. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 20460.
- U.S. Environmental Protection Agency. 1992. Office of Water Environmental and Program Information Systems Compendium. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 20460. 152p.
- U.S. Environmental Protection Agency. 1993. Technical Description of the Reach File. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 20460. 23p.
- U.S. Geological Survey. 1982. A U.S. Geological Survey Data Standard: Codes for the Identification of Hydrologic Units in the United States and Caribbean Outlying Areas. Geological Survey Circular 878-A. U.S. Geological Survey, Water Resources Division, Reston, VA. 22092. 115p.
- U.S. Geological Survey 1992. Hydro-Climatic Data Network: A U.S. Geological Survey Streamflow Data Set for the United States for the Study of Climate Variations 1874-1988. Open File Report 92-129/USGS Water Supply Paper No. 2406. U.S. Geological Survey, Water Resources Division, Reston, VA. 22092. 193p.
- Ward, R. C., J. C. Loftis, and G. B. McBride. 1990. Design of Water Quality Monitoring Systems. Van Nostrand Reinhold Co., New York, NY. 231p.

Appendix I

Selected General Water Quality References

American Public Health Association. 1989. Standard Methods for the Examination of Water and Wastewater (17th ed.). Washington, D.C. 1476p.

Drever, J. I. 1982. The Geochemistry of Natural Waters. Prentice-Hall, Inc., Englewood Cliffs, NJ. 388p.

Dunne, T. and L. B. Leopold. 1978. Water in Environmental Planning. W.H. Freeman and Company, San Francisco, CA. 818p.

Everett, L. G. 1980. Groundwater Monitoring. General Electric Co., Schenectady, NY. 440p.

Fetter, C. W. 1988. Applied Hydrogeology (2nd ed.). MacMillan Publishing Co., New York, NY. 592p.

Flora, M. D., T. E. Ricketts, J. Wilson, and S. Kunkle. 1984. Water Quality Criteria: An Overview for Park Natural Resource Specialists. WRFSL Report No. 84-4. National Park Service, Water Resources Field Support Laboratory, Fort Collins, CO. 46p.

Gilbert, R. O. 1987. Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York, NY. 320p.

Hem, J. D. 1985. Study and Interpretation of the Chemical Characteristics of Natural Water (3rd ed.). U.S. Geological Survey Water-Supply Paper 2254. U.S. Government Printing Office, Washington, D.C. 263p.

Kunkle, S., W. S. Johnson, and M. Flora. 1987. Monitoring Stream Water Quality for Land-Use Impacts: A Training Manual for Natural Resource Management Specialists. Water Resources Division, National Park Service, Fort Collins, CO. 102p.

Kunkle, S. and J. Wilson. 1984. Specific Conductance and pH Measurements in Surface Waters: An Introduction for Park Natural Resource Specialists. Water Resources Field Support Laboratory Report No. 84-3. National Park Service, Water Resources Division, Fort Collins, Colorado 80525. 51p.

Merritt, R. W., and K. W. Cummins (eds.). 1984. An Introduction to the Aquatic Insects of North America (2nd ed.). Kendall/Hunt Publishing Co., Dubuque, IA. 44p.

Morel, F. M. 1983. Principles of Aquatic Chemistry. John Wiley & Sons, Inc., New York, NY. 446p.

Nielsen, D. M. (ed.). 1991. Practical Handbook of Ground-Water Monitoring. Lewis Publishers, Inc. Chelsea, MI. 717p.

Ponce, S. L. 1980a. Statistical Methods Commonly Used in Water Quality Data Analysis. WSDG Technical Paper WSDG-TP-00001. U.S. Department of Agriculture, Forest Service, Watershed Systems Development Group, Fort Collins, CO. 136p.

Ponce, S. L. 1980b. Water Quality Monitoring Programs. WSDG Technical Paper WSDG-TP-00002. U.S. Department of Agriculture, Forest Service, Watershed Systems Development Group, Fort Collins, CO. 68p.

Rand, G. M. and S. R. Petrocelli (eds.). 1985. Fundamentals of Aquatic Toxicology. Hemisphere Publishing Co., New York, NY. 666p.

- Rantz, S. E. and others. 1982. Measurement and Computation of Streamflow: Volume 1. Measurement of Stage and Discharge. Volume 2. Computation of Discharge. U.S. Department of the Interior, Geological Survey Water Supply Paper 2175. 631p.
- Stednick, J.D. and D. M. Gilbert. 1998. Water Quality Inventory Protocol: Riverine Environments. National Park Service, Water Resources Division Technical Report NPS/NRWRD/NRTR-98/177. Fort Collins, CO. 103p.
- Stednick, J. D. 1991. Wildland Water Quality Sampling and Analysis. Academic Press, Inc., San Diego, CA. 217p.
- United Nations Educational, Scientific and Cultural Organization (UNESCO). 1978. Water Quality Surveys: A Guide for the Collection and Interpretation of Water Quality Data. IHD-WHO Working Group on the Quality of Water, Paris, France. 350p.
- U.S. Department of the Interior. 1977. National Handbook of Recommended Methods for Water-Data Acquisition. U.S. Geological Survey, Office of Water-Data Coordination, Reston, VA. 990p.
- U.S. Environmental Protection Agency. 1978. Microbiological Methods for Monitoring the Environment: Water and Wastes. R. H. Border, J. A. Winter, and P. W. Scarpino. EPA-600/8-78-017. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 338p.
- U.S. Environmental Protection Agency. 1979b. Methods for Chemical Analysis of Water and Wastes. EPA-600/4-79-020. (Revised March 1983). Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 460p.
- U.S. Environmental Protection Agency. 1983. Water Quality Standards Handbook. Office of Water Regulations and Standards, Washington, D.C. 218p.
- U.S. Environmental Protection Agency. 1995. Quality Criteria for Water 1995. Final Draft. Office of Water Regulations and Standards, Washington, D.C.
- U.S. Environmental Protection Agency. 1989. Rapid Bioassessment Protocols for Use in Streams and Rivers: Benthic Macroinvertebrates and Fish. J. L. Plafkin, M. T. Barbour, K. D. Porter, S. K. Gross, and R. M. Hughes. EPA-444/4-89-001. Office of Water Regulations and Standards, Assessment and Watershed Protection Division, Washington, D.C. 162p.
- U.S. Environmental Protection Agency. 1990. Macroinvertebrate Field and Laboratory Methods for Evaluating the Biological Integrity of Surface Waters. D. J. Klemm, P. A. Lewis, F. Fulk, and J. M. Lazorchak. EPA-600/4-90-030. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 256p.
- U.S. Environmental Protection Agency. 1991a. Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (4th ed.). C. I. Weber, ed. EPA-600/4-90-027. Office of Research and Development, Environmental Monitoring Systems Laboratory, Cincinnati, OH. 293p.

U.S. Environmental Protection Agency. 1991b. Monitoring Guidelines to Evaluate Effects of Forestry Activities on Streams in the Pacific Northwest and Alaska. L. H. MacDonald, A. W.Smart, and R. C. Wissmar. EPA-910/9-91-001. Region 10, Seattle, WA. 162p.

U.S. Environmental Protection Agency. 1993. Guide to Federal Water Quality Programs and Information. T. Stuart and N. P. Ross. EPA-230-B-93-001. Office of Strategic Planning and Environmental Data, Environmental Statistics and Information Division. Washington, D.C. 194p.

Verschueren, K. 1983. Handbook of Environmental Data on Organic Chemicals (2nd ed.). Van Nostrand Reinhold Co., New York, NY. 1310p.

Viessman W. and M. J. Hammer. 1985. Water Supply and Pollution Control (4th ed.). Harper and Row, Publishers, Inc. New York, NY. 797p.

Ward, R. C., J. C. Loftis, and G. B. McBride. 1990. Design of Water Quality Monitoring Systems. Van Nostrand Reinhold Co., New York, NY. 231p.

Wetzel, R. G. 1983. Limnology (2nd ed.). Sanders College Publishing, Philadelphia, PA. 767p.





As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people. The Department also promotes the goals of the Take Pride in America campaign by encouraging stewardship and citizen responsibility for the public lands and promoting citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

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